

No. 1,858

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Vol. LXXXVII

SEPTEMBER 4, 1915.

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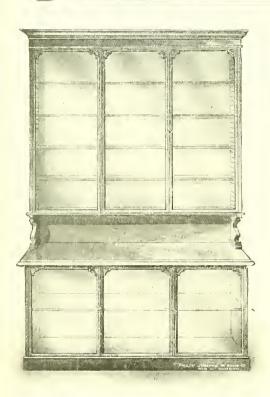
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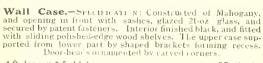
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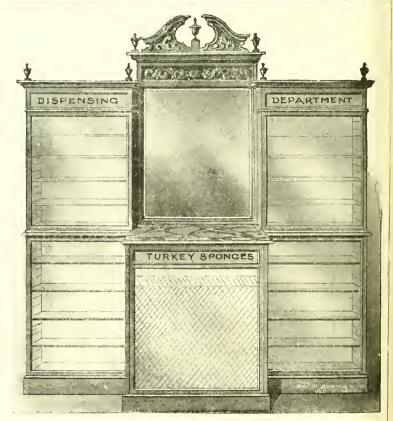
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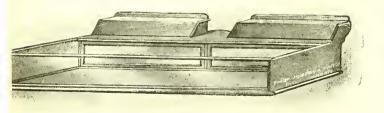


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5 ft. 6 ft.	1.0	11	• •				 8 10	0
7 ft.	11	**					 917	0
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9 ft. 10 ft.	21	3.7	• •	* *	• •			6
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5 ft.	long	$\times$ 2 ft	t. 6 in	<ul> <li>back</li> </ul>	to fr	ont X	6 ft. 6	in.	£14 10	
	high to	topo	of pedi	ment					£14 10	0
									15 10	
7 ft.	Ditto								16 10	0
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3 ft.	long X	1 ft	9 in.	wide	× 12 i	n. high	over	all	£2	17	6
4 ft.	Ditto								3	1.2	n
5 ft.	Ditto								4	15	0
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Burger, Burbidges & Co.
Bush, H. W., & Co., Ltd.
Longroft, Burbidges & Co.
Bush, H. W., & Co., Ltd.
Longroft, H. M.
Maw, S., Son & Sons, Ltd.
Longroft, H. M.
Maw, S., Son & Sons, Ltd.
Newbery, F., & Sons, Ltd.
Newbery, F., & Sons, Ltd.
Solport Bros.
Solport Bros.
Solport Bros.
Solport Bros.
Solport Bros.
Woolley, J., Sons & Co., Ltd.
Woolley, J., Sons & Co., Ltd.
Woolley, J., Sons & Co., Ltd.

Drugs, Crude

Drugs, Crude

Drags, Crude Berg. V., & Sons
Dodge & Olcott Co
Gatnergood's Exor.
Godall. Backhouse & Co.
McKesson & Robbins McKesson & Robbins Potter & Clarke, Ltd. Raimes & Co.

Eau de Cologne Bronnley, H., & Co., Ltd. Bush W. J., & Co., Ltd. Christy, Thos., & Co. Erasmic Co., Ltd. Lescol Perfumery Co. Maw, S., Son & Sons Hay, Roberts & Co., Ltd. Sankers' Sangers Schutze, F., & Co., Ltd. Vinolia Co., Ltd.

Eau de Cologne (solid)
Demuth's Laboratories

Educational Institutions Enstitutions
Bath&WestofEnglancCollege
Rirminglams & Midland Coll.
BritishOptical Institute
City of London College
College of Preceptors
Dawes, A. Hollow College
Liverpool School of Pharmacy
Manchester Munic pal School
of Technology
North of Englar & School
NorthernCollege of Pbarmacy
School of Pharmacy
School of Pharmacy
School of England College
West minster College
Effetyesscont

Effervescen Preparations
Allen & Hanburys, Ltd.
EvansSons Lescher&Webb,Ld.
Goodall, Backhouse & Co.
Elastic Gum Insts. Mason Bros. & Chapman

Elastic Hosiery Ayrton, Sannders & Co., Ltd.
Bailey, W. H., & Son
Burge, Warren & Blidgley, Ld.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Wood, Vincent

Blectrical Wright, Archd. J., Ltd Imery and Cioth Cakey, J., & Sons, Ltd.

Emetine Salts Carnegie Bros.
macfarlan, J. F., & Co.
Whifen & Sons, Ltd

Emulsifiers Bennett, Sons & Sbears. Ltd.
Roberts' Patent Filling
Machine Co.
Wilkinson. S. W., & Co. Wilkinson, S. W., & Co.

maisions, C.L.O.,

Amaistons, C.L.O., & &c.
Ayrton, Saunders & Co., Ltd.
Basias Bros. & Stevenson, Ltd.
Blackie, Robert
Browning, Wm., & Co.
Cupal, Ltd.
Faulding, F. H., & Co.
Parke, Davis & Co.
Scott & Bowne, Ltd.,
Stevenson, H. E., & Co.
Wyleys, Ltd.
Enamelled Hospital Regulistics

pital Requisites rme, Evans & Co., Ltd. Endolytic Tubes letcher Fletcher & Co. Ltd Endory tab — Fletcher & Co. Lta Enemas 
Enemas 
Burge, Warren & Ridgley, Ltd. 
Ingram, J. G., & Son 
Maw, S., Son & Sons 
Warne, W., & Co., Ltd 
Epsom Salts 

HAWARD & Sons, Ltd.

Howards & Sons, Ltd.

Essences, Sol. and Fruit Sol. and Fruit
Alliance Drug & Chem.
Barnett & Foster
Boake Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
London Essence Co.
Polak & Schwarz
Stevenson & Howell, Ltd

Stevenson & Howell, Ltd Ethers
Baiss Bros. & Stevenson, Ltd.
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

Eucalyptus Oil
British Drug Houses, Ltd., The
Stevenson, H. E., & Oo.
Tasmanian Eucalyptus Oil Co.
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Porsbaw, E , & Son, Ltd. Extract of Herbs
Newball & Mason
Potter & Clarke, Ltd.
Extracts

Extracts
(Medicinal)
Allen, Stafford, & Sons, Ltd.
Burroughs Weltcome & Co.
EvansSons Lesoner&Webb, Ld.
Gathergood's Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W. & Son, Ltd.

Factory, &c., Sites Great Western Railway Feeding Bottles Bush, H. W., & Co., Ltd. Maw, S., Son & Sons Schutze, F., & Co., Ltd.

Filling Machines
Schutze, F., & Co., Ltd.
Filling Machines
Forgrove Machinery Co., Ltd
Roberts' Pat. Filling Mach Co.
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BritishPasteur-Chamberland
Filter Co.

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Kay Bros., Ltd.
Smith, Jno. H., & Co.
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Bell (John), Hills & Lucas, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
British Milk Products Co., Ld
Deans, Logan & Co., Ltd.
Fairchild Bros. & Foster
Frame Food Co.
Harker, Stagg & Morgan, Ltd
Lorimer, John
Lothouse & Saltmer, Ltd.
Namon, Ltd.
Namon, Ltd.
White, A. J., Ltd.
White, A. J., Ltd.
Willows, Francis, B. & T., Ltd.
Wooley, Jas., Sons & Co., Ltd.
Wooley, Jas., Sons & Co., Ltd.
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Scholl Mufg. Co., Ltd.

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Ganzes Bailey, R., & Son Carnegie Bros.

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Anzora Perfumery Co.
Blackie, Robert
Edwards' "Harlene" Co.
Ni-Verre Chemical Co. Sangers Tokalon Ltd.

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Tyrer, T., & Co., Ltd.
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Insect Powder

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Raimes & Cc.

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Idris & Co., Ltd.
Linseed, Crushed
Mumford, G. S., & Sons

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Maw, S., Son & Sons
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Eucryl Ltd.
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Lorimer, John
Zimmermann, C.& Co (Chemicals), Ltd.

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Blair, Campbell & McLean, Ltd.
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Gardner, Wm., & Sons, Ltd.
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Jackson, J. G., Ltd.
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Stokes, F. J., Machine Co.
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Wilkinson, S. W., & Co.

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Henry, T. & W.
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Phillips, Chas. H., Chem. Co.
Washington Chemical Co., Ld. Malt Extract and

Malt Extract and Preps.

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Caider, James, & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Davies, Sons & Co.
EvansSons Lescher & Webb, Ld
Fletcher, Fletcher & Co., Ltd.
May, Roberts & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
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May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

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Preston's Liverpool Distillery
Randall & Son, Ltd. [Co.,Ld.
Thornley, Samuel, Ltd.

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Night Lights Price's Patent Candle Co.,Ld.

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Corbyn, Stacey & Co., Ltd.
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Cox, Archur H., & Co., Ltd.
Christy, Thos., & Co., Ltd.
Christy, Thos., & Co.
Evans Sons, & Co.
Evans Sons, & Co.
Evans Sons, & Co.
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Sangers | Shirley Bros., Ltd.
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Digestive Ferments Co.

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Armour & Co., Ltd.
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Kerfoot, T., & Co.
Lane-Hall, R., & Co.
Naef, M., & Co., Succrs.
Polak & Schwarz
Salle, II., & Co.
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Wright, Layman & Umney, Ld
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Baiss Bros. & Stevenson, Ltd.
Baiss Bros. & Stevenson, Ltd.
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Bush, W. J., & Co., Ltd.
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Southall Bros. & Barclay, L
Tozana Perfumery Co.
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West, T., & Son

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Monsanto Chemical Works
Reitmeyer Calburn & K.
dersley, Ltd.

Phosphorus and Preps. May & Baker, Ltd. Tyrer, T., & Co., Ltd.

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Burroughs Wellcome & Oc
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Wilkinson, James F.

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Alliance Drug & Chem, Or
Bandoeng Quinine Fasto
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w, S., Son & Sons
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gara houlder Straps

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Sodium

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Co. Ltd.
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Burrow, W. & J.

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Duncan, Flockhart & Co.
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Curson, Gerrarde Co.
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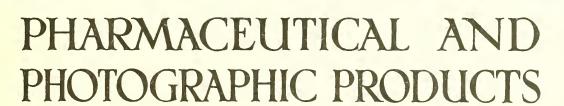
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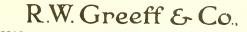
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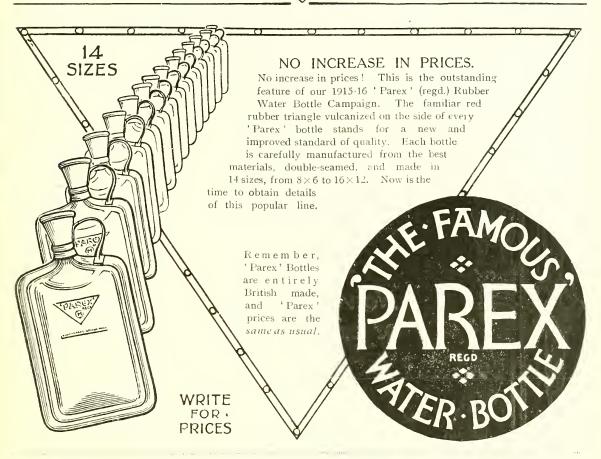
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NUMBER 203

SEPTEMBER 4, 1915



## Looking Ahead

We have just been reading a book written by a Polish Jew. It is a remarkable book because it was published in 1898. The author, Jean Bloch, died, we believe, in 1901 or 1902. The work is a prophecy of the war of the future. With uncanny preintimation he foretold that the next European War would be fought "either on the Franco-German Frontier..., or the German-Austrian - Russian Frontiers — or on both." He maintained that owing to the improvements in gunnery, more extended defences would be adopted, protected by wire obstructions and pitfalls. The amount of

ammunition consumed, he contended, would be prodigious.

These extracts from the book by Jean Bloch illustrate a phase of the art of looking ahead. To peer beyond the horizon of time is one of the natural developments of modern business. The future offers inspirations to "do better"—always improve, always seek something new, is the watchword of commerce. Here, in this House of Maw, preparations for the coming season quietly go on side by side with the execution of the orders of the day. When pharmacy windows are full of cough

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Your own label on bottles fitted with patent antiseptic cap.
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7/9 per doz 13/3 " "

MALT EXTRACT with Cod LiverOil.

Owing to the increased price of Cod Liver Oil, the prices for Malt and Oil are varying somewhat.

Write for our special quotation.

Only the finest barley is used, and the malt is carefully concentrated by the latest process.

Not a particle of CALDER'S Extract is sold until it has been tested by Analysis as to purity and strength.

Every bottle of CALDER'S Extract is hermetically sealed by a patent antiseptic cap, ensuring that the contents reach the consumer in excellent condition.

# Only the finest Norwegian Cod Liver Oil is used.

May a representative call and give you fuller details?

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It has only recently become possible to hone, sharpen and strop blades equal to new, owing to the recent invention of a special patented machine that holds the blades at the correct angle during several processes, and yet retains the human touch throughout the manipulation of the blades.

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Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, Learing a very large Protected Betail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

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*	11	11	**	1+	**	1/-	7/-
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It is patriotic, and it is good business to supplant Apenta, Hunyadi and Carlsbad Waters by Cheltenham Natural Aperient Water.

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LARGER PROFITS TO THE RETAILER than on any other Cocoa.

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A Reconstructive Nerve Food MADE IN ENGLAND

NUTRIENT, RESTORATIVE and ACTIVATING

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Mental and Physical Fatigue, and Nervous
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Fixed Retail Prices: 1/-, 1/6, 2/6, 5/-. Wholesale Prices: 8/6, 12/9, 21/-, 42/- per dox. The above prices show a net profit to the Distributor of over THIRTY FER CENT. ON SELLING PRICE & OVER 40% ON COST.

Special Discounts for Large Quantities.

For Samples & all THE BRITISH MILK PRODUCTS CO., Ltd. 69 M A R K | L A N E . L O N D O N . E . C .

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## BORACIC POWDER— ENVELOPES

will "Catch the Eye" and create a

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Boracic Oatmeal
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War has brought to the chemists many difficulties, not the least of which is the loss of profits through the increase in the cost of production of very many articles, while the selling price has had to remain the same. But in "Rodine" Rat Poison you have a most

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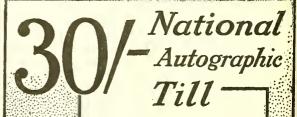
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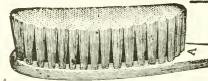
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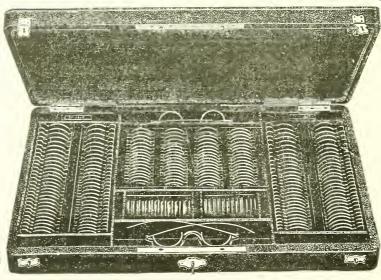
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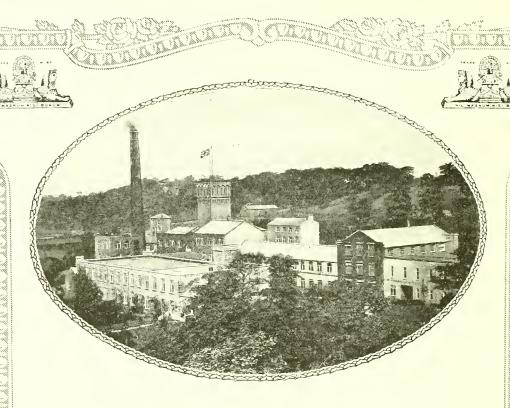
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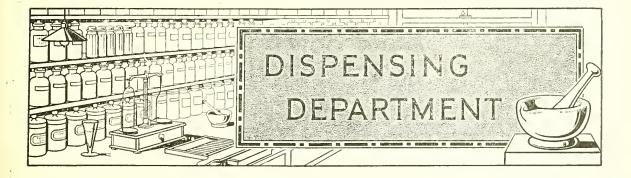
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#### Summary of Leading Matters.

The use of hypochlorous solutions in the treatment of, wounds has been fairly established, and a new contribution to the subject by Dr. H. D. Dakin is epitomised on p. 52.

The bulk of market changes is upwards, but on the easier side are potash permanganate, nux vomica. Cochin coconut and cottonseed oils. A drug-auction will be held next week

Newspaper talk of women being employed by the War Office as dispensers in military hospitals is, to say the least, premature. An Editorial statement about the matter is printed on p. 50.

Fresh steps are being taken by the German War Committee to get supplies of fats, of which there is a famine in the Empire that threatens the continuance of the supplies of propulsive explosives. Read the article on p. 49.

French pharmacists, through the Paris Society of Pharmacy, have decided what should be done in the future to counteract the evil of trade-marking German medicinal specialities sold in France. We report the matter on p. 41.

In this and the page following we print a series of notes regarding exportation of goods (chiefly medicinal products) from this and other countries which merit the attention of manufacturers, wholesalers, and Colonial and foreign

Country chemists are invited to read and respond to the letters on sheep-dips and sheep-dipping on pp. 61-62. It is suggested that in this matter the Chemists' Defence Association, as the conservator of drug-trade interests, ought to make a move promptly.

Dr. Waldo, the City of London Coroner, in the course of an inquest, again referred to the comparative ease with which the public can buy drugs, and also spoke of the Privy Council's action upon his representation regarding the old and new laudanums. We point out the importance of the principle upon which the Pharmaceutical Society has acted in this matter (p. 38).

# European War.

A Year Ago To-day.

(War News in C. & D., September 5, 1914.)

(War News in C. & D., September 5, 1914.)

The section commenced with messages received from C. & D. subscribers in Antwerp, Geneva, Moscow, Paris, and Petrograd. The scheme for supplying medicine free to the dependants of sailors and soldiers serving with the Colours was outlined. The Moratorium was extended to October 4. Particulars were given regarding the appointment of a Board of Trade Committee to deal with the supply of chemical products, Viscount Haldane being Chairman (subsequently he transferred the duties to Lord Moulton). The Chemical Society, the Society of Chemical Industry, and the London Chamber of Commerce appointed Committees to be more or less in touch with the Board of Trade Committee. The Board of Trade Advisory Committee on Commercial Intelligence decided to issue bulletins to assist British merchants and manufacturers in securing mutee on Commercial Intelligence decided to issue bulletins to assist British merchants and manufacturers in securing a share of business bitherto in the hands of German and Austro-German competitors. A Committee on Drug-supply was appointed by the Government, with Mr. J. Smith Whitaker, of the National Insurance Commission, as Chairman. More than two pages of miscellaneous information was given, including news from Germany (a C. & D. feature consistently kent up since). The manufacture of salvareaches consistently kept up since). The manufacture of salvarsan was the subject of a special article.

#### Pharmaceutical Roll of Honour.

Non sibi sed patria.-Cicero. FIFTIETH LIST.

Conyngham, Lieutenant E. K. (third son of Mr. H. Conyngham, Ph.C., Dublin), R.N.V.R. Lieutenant E. K. Conyngham has gone abroad under orders from the

FITCH. Private George (lately assistant-representative of Lever Bros., Ltd., Sheffield), Irish Guards. Private Fitch has been at the Front since the commencement of the war, and has recently been invalided home. He is now in the Firvale Hospital Military Annexe at Sheffield, and is making satisfactory progress.

Garker. J. D. (lately representative of Southall Bros. & Barclay, Ltd., Birmingham, in Manchester, Liverpool, and district), Inns of Court O.T.C.

Lator Corporal G. (formerly with Mr. A. H. Ohphants.

LALOR, Corporal G. (formerly with Mr. A. II. Ohphant, Ph.C., Dublin), 15th Field Ambulance, R.A.M.C. Corporal Lalor has been in the firing line with his unit since the beginning of the war and took part in the retreat from

Mons.

McNay, John (only son of Mr. David McNay, chemist, Kilmarnock), 3/9th Batt. Highland Light Infantry (Glasgow Highlanders).

Murray, Donald C. (lately apprentice with Mr. N. G. Beck, chemist, Burgess Hill, Sussex), R.A.M.C.

Oldland, Private R. W., Ph.C., Melvin Hall, Golder's Green Road, London, N.W., R.A.M.C.

SUTHERIAND, Private H., Dacre House, Laygate, South Shields, R.A.M.C.

WMAKER Private Cyrll, (lately apprentice with Mr. F. T.

Shields, R.A.M.C.

WALKER, Private Cyrll (lately apprentice with Mr. F. T.
Chapman, chemist. Winterton, Lines), R.A.M.C.

WISE, Private H. M. (formerly with Bell & Osborne, chemists, Spalding), 25th General Hospital, R.A.M.C.

The following additional members of the staff of Ayrton, Saunders & Co., Ltd., Liverpool, have joined the Colours: Arthur Brocklehurst and Lawrence Wavish.

Export Licences.

The following memorandum for the information of the holders of licences has been prepared by the War Trade Department, 4 Central Buildings, Westminster, London,

(1) As to licences for single shipments.—The licence is valid for three weeks from the date of shipment mentioned thereon, and for a further three weeks if a satisfactory explanation is given to the local Collector of Customs and Excise as to the reasons for non-shipment during the first

three weeks.

(2) The licence should accompany the goods when shipped.

(2) The licence should accompany the goods when shipped, and care should be taken to ensure that the licence is not taken with a vessel on which the goods are not shipped.

(3) The whole of the goods must be shipped from one port and usually in one vessel. If the goods are brought for shipment and a portion is shut out of the exporting ship on account of lack of accommodation, the portion unshipped may, at the discretion of the local Collector of Customs and Twice the shipped to the care description in another ship. Excise, be shipped to the same destination in another ship

within the period for which the licence is valid.

(4) As to general licences.—General licences cannot be extended beyond the period specified therein. If it is desired to make further shipments after the expiry of this

period, a fresh application should be made towards the date

of expiry.

(5) As to licences for transmission by post.—A licence authorising transmission by post is available only at the post-office mentioned therein, and cannot be used for ordinary shipment.

(6) As to ligences generally.—Applications for amendments to licences will only be considered where satisfactory reasons

are given.

(7) Unused licences should be returned to the War Trade

Department.

(8) When only a portion of the goods mentioned on a licence is brought for shipment, a letter indicating the extent to which the licence has been used should be sent to the War Trade Department.

(9) In all correspondence relating to licences the number and date of the licence should be quoted.

(10) A licence may be revoked if at any time there may the circumstances rendering this course necessary; and the grant of a licence does not in any way relieve an exporter of his personal responsibility for taking all possible steps to ensure that the goods-

(a) do not, directly or indirectly, reach enemy territory:

and

(b) are not used in the production of other goods for export to such territory.

The following statutory requirements must be complied

(a) Where a licence to export any goods authorises the (a) Where a ficelect is export any goods authorises the exportation thereof to a particular person or place or to a particular person at a particular place named in the licence, the name of the person or place, or both, as the case may be, must be inserted in all invoices, bills of lading, manifests, and other documents relating to the goods. (5 Geo. 5, e, 31, s. 4.)

goods. (5 Geo. 5, e. 51, s. 4.)
(b) The goods may only be delivered to the person or

provision to this effect is made by Proclamation. (5 and 6 Geo. 5, c. 52, s. 1.)

(c) The exporter may be required by the Commissioners (c) The exporter may be required by the Commissioners of Customs and Excise to produce evidence to their satisfaction that goods have not reached a destination in any territory which under any Proclamation issued by his Majesty dealing with trading with the enemy for the time being in force, is or is treated as enemy country. (5 Geo. 5, c. 31, s. 5.)

#### Notices as to Exports of Chemicals, etc.

Belgium.—The exportation of the following articles from Belgium is prohibited, unless special permission is obtained from the War Department of the German Government in Belgium: Aniline and mineral dyes, medicaments and sur-gical dressings, chemicals (especially saltpetre, nitric acid, sulphur, sulphuric acid, hydrochloric acid, potassium salts, sulphur, sulphuric acid, hydrochloric acid, potassium salts, caustic potash and potash-lyes, glycerin, explosives, camphor, ammonia solutions, ammonium sulphate, benzol, toluol, and tar: vegetable, animal, and mineral fats and oils (including benzine, paraffin, stearin, petroleum, naphtha, and lubricating oils), and resins. The exportation of these articles to Germany, Luxemburg, and the occupied part of France is allowed.

occupied part of France is allowed.

Germany — According to a decree of February 6 of the Imperial Chancellor the exportation of ampoules and medicine-bottles from Germany was allowed. On July 27, however, a new decree was issued, according to which special permission from the Imperial Chancellor must be obtained for these articles when sent to foreign countries. By a decree of August 17, the exportation of the following articles is prohibited: Kaolin, Chamotte and Dinas mortar, borax mortar and boracite, crude and refined ozokerite, montane-wax bitumen, brown-coal bitumen, refuse lycs of the preparation of sulphite cellulose, and bottles for Thermos flasks.

Thermos flasks.

LUNEMBURG.—The exportation of potash-lyes and sodium sulphato is prohibited to all destinations, except to Ger-

NETHERLANDS.—A Royal Decree of August 18 prohibits the NETHERLANDS.—A Royal Decree of August 18 prompits the exportation of surgical and optical instruments. "Handels-beriehten" published on August 19 a complete list of articles which may not be exported, also the decisions of the Government with regard to articles as to which there was doubt whether they belong to a rubrie mentioned in the Royal Decrees. Most of these decisions have already been reported in The Chemist and Druggist. With regard to be the Government has decided that it was not jutended. batist, the Government has decided that it was not intended batist, the Government has decided that it was not intended to prohibit its exportation, and it need not be classed under the rubric "medicaments and surgical dressings and bandages." The exportation of Billroth batist, Mosetig batist, Juliana batist, Victoria batist, and permanent hatist (all of which consist of cotton batist made impervious to water by means of rubber) is prohibited, however; also exportation

of surgical gauzes, cambric tissues, and cotton for surgical dressings.

NORWAY.-The exportation of eoal tar from Norway has

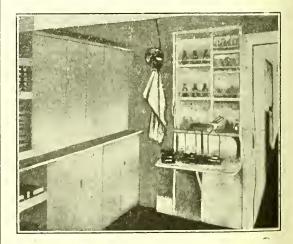
been prohibited.

RUSSIA.—The "Board of Trade Journal" (August 26)
publishes a list of articles the exportation of which has
been prohibited.

This list supersedes all the previous decrees. Among the items prohibited for export by all frontiers of the Empire are dextrin and starch alcohol, frontiers of the Empire are dextrin and starch alcolol, mineral wax, oil-seeds, santonin, lycopodium, all plants and parts thereof used in medicine, kieselguhr, petroleum and all petroleum products, vaseline, turpentine oil, colophony, shellae, gum acacia, camphor, sulphur in all forms, antimony, borax and borie acid, ammonia and ammoniacal salts, ehromie-acid salts, all nitrates, soda, nitric and sulphuric acids, acetic acid and its ethylic and amylic ethers, benzol, toluol, xylol, phenol, cresol, naphthaline, anthracene, phenanthrene and all nitro-combinations and certain salts, as also all amide-combinations of the same. certain salts, as also all amido-combinations of the same, wood spirit, acetone, phosphorus, Berthollet's salts, chlorates, salts and combinations of manganese and of lead, copper salts, mercury and its salts, ethylic ether, amyl alcohol, fusel oil, chlorhydrin and dinitro-chlorhydrin, vegetable oils, glycerin, tanning-substances, turmeric, pharmaceutical products, nitro-dextrin, dinitroglycerin and all dynamites, pyroxylin, pyrocollodion, collodion, platinum, and lint.

The Caledonian Hospital Train,

An elaborate hospital on wheels, in the form of an ambulance train, has been constructed by the Caledonian Railway Co. at their St. Rollox Works to the order of the War Office for the conveyance of British wounded soldiers



THE DISPENSARY IN THE PHARMACY CAR.

on the lines of communication in France. It is made up of sixteen carriages and equipped with all the conveniences of an up-to-date hospital. The exteriors of the vehicles of an up-to-date hospital. The exteriors of the vehicles are painted khaki colour, with a prominent Red Cross in the centre of each coach. The interior has a passage from end to end and is finished in white enamel. There are five wards for "sitting-up" cases, four for "lying-down" patients, one pharmacy car, one staff car, one personnet car, one infectious-ward car, one kitchen and mess-room car, one whichen and stores ear, and one brake and stores ear, lie kitchen and stores ear, and one brake and stores ear. In all, aecommodation is provided for 454 patients and forty-four officials. The pharmacy car has provision for dispensary commodities and necessary medicinal, surgical, and other appliances, including a water-heater and a steriliser, as well as a treatment compartment with operating table. For the convenient handling of patients requiring special attention on the journey, the corridor of this car has been made sufficiently wide to admit a stretcher without discomfort to the patients. To facilitate loading the ward-cars have double-width doors on both sides. The infectious-ward car consists of two separates convents and with car consists of two separate compartments, each with car consists of two separate compartments, each with eighteen folding cots, and is completely isolated from the rest of the train. Abundant sanitary and lavatory conveniences are provided. The total water-tank capacity available for all purposes on the train is 1,600 gals. The train will be available for inspection by the public at several Scottish stations during September, commencing at the Central Station, Glasgow, on September 2. The opening ceremony at Glasgow was to be performed by the Duchess of Montrose. Our illustration of the dispensary in the pharmacy car is reproduced from the "Glasgow Herald." A Dispenser's Experience.

A Dispenser's Experience.

PRIVATE H. M. Wise, 25th General Hospital, R.A.M.C., who recently proceeded with his unit to France, writing to his former employers, Bell & Osborne, chemists, Spalding, says: "On arrival we spent two days in the rest camp, during which time we were doing transport work, for we have to deal with all our own marquees, stores, and equipment from the time we leave the depôt until we arrive at our destination. There were 600 tons of equipment, etc. Wo are now stationed somewhere in the North of France, not far from the coast. A general hospital is the largest type of field hospital, and the patients are brought from the casualty clearing station by ambulance trains to a siding a few miles away, thence by motor ambulances. The dispensary consists of two large store marquees, and we hold a big stock of both surgical and medical equipment. There are three of us in the dispensary—a sergeant and two privates. For shelves we have packing-cases, and we have to adapt all manner of things for our own convenience. There are many more similar hospitals near, and there is a big convalescent camp attached. The whole of the arrangements are splendid."

Miscellaneous.

WAR-LOAN CONTRIBUTIONS.—Jewsbury & Brown, Manchester, have made a ninth contribution of 17t. to the local relief fund, half being contributed by the firm and half by the employés.

Neve & Co. (proprictor, Mr. Harold Skryme, chemist and druggist), 12 Wellington Place, Hastings, have distributed to sailors and soldiers since the war begun over 30,000 tins of Shurzine healing ointment, of which they are the manufacturers.

Pharmacists' Volunteer Training Corps.—The drill on Sunday morning, September 5, will be held at the quadrangle, Wesleyan Training College, 130 Arneway Street, Medway Street, Horseferry Road, S.W., at 10 A.M. Recruits can be enrolled at the drill ground on Sunday mornings or on Wednesdays and Thursdays (afternoons) at

17 Bloomsbury Square, W.C.
THE TRADE WAR.—The Board of Trade inform us that it continues to receive a very large number of inquiries for the names of sellers or buyers of articles of which the sources of supply or markets have been interfered with by the war. of supply or markets have been interfered with by the war. British firms interested, as suppliers, in any of the goods mentioned should communicate with the Director of the Commercial Intelligence Branch of the Board of Trade, 73 Basinghall Street, London, E.C.

CHEMISTS AND CONSCRIPTION.—A writer in the "Glasgow News" asks: If conscription should come what would be the position of a chemist and druggist's assistant? He adds that since August of last year it is estimated that

adds that since August of last year it is estimated that over 2,000 have left the profession and entered the Army. The depleted ranks cannot be filled by all and sundry at short notice. The public must have medicine dispensed by competent dispensers; doctors concur with them in that respect.

MME. CURIE'S X-RAY CAR.—An English nurse in the war zone has written home as follows: "For some days we have had the honour of numbering Mme. Curie among our staff. She came in her car with two male assistants to reorganise our x-ray department and to give us the benefit of her vast scientific researches. She goes from one hospital to another, repairing, arranging, and taking over the entire x-ray work, until she can leave it in capable hands. Her outfit is contained in her car, even to the battery that works the rays.

DYE-MANUFACTURE IN DENMARK.—It is announced from Copenhagen that, in consequence of the difficulty or impossibility of procuring aniline dyes from Germany during the war, the Danes have inaugurated a colour-industry on their own account. Several factories for this purpose have been equipped in Jutland, and have obtained good results in producing some of the dyes. In addition, experiments are now being made to produce other chemical dyes, especially the black colours largely in demand for the textile-industry. Hopes are entertained of being able to defeat German competition in the future.

NORWEGIAN SYMPATHY FOR THE ALLIES.—The ex-President of the Norwegian Chamber of Commerce in London (Mr. J. Jörgensen, of Johnsen & Jörgensen), believing that many Norwegians who have made their home in Britain would gladly welcome any scheme enabling them to show in would gladly welcome any scheme enabling them to show in some tangible manner their great sympathy and loyalty. has formed a small but influential Committee to appeal for funds to supply the military hospitals here with a number of fully-trained Norwegian nurses, thoroughly conversant with the English language. The scheme has met with such enthusiastic support among the Norwegian colony that we understand it will be possible to send to the various military hospitals as many English-speaking Norwegian aurses as can be found.

FLAME-PROJECTOR .- "The Times" special correspondent at British Headquarters in France has been shown the first complete "flame-projector" captured from the Germans, and describes it as roughly consisting of three main parts. First there is a reservoir cylinder for storing the nitrogen by which is obtained the pressure for forcing out the liquid oil from the main body of the instrument. The cylinder, which is about 3 ft. 6 in, high, is capable of holding 14.4 litres and weighs 23 kilos, when empty. It has, apparently, been tested to 190 atmospheres, but the normal pressure in it pressuro when full is 125 atmospheres. Each of these cylinders is capable of supplying enough nitrogen for four or five of the actual "flame-projectors." The projector itself consists the actual "flame-projectors." The projector itself consists of two parts, first a portable reservoir into which the nitrogen is pumped from the cylinder, and into which also is pumped the liquid oil, which appears to be a form of When the machine is to be used a valve is oil-gas tar. opened, and the pressure of nitrogen forces the liquid along hose, some 9 ft. or 10 ft. long, ending in a nozzle about ft. long. The contrivance for igniting the liquid at the 4 ft. long. instant of emission may be described generally as igniting the liquid automatically, much on the same principle that any charge is fired.

#### Personalia.

Mr. V. B. Yates, chemist and druggist, Swinton, Mannester, is acting as Local Secretary of the Snapshots from chester, is active Homo League.

Homo League.

SECOND-LIEUTENANT JOHN H. WILLIAMS-IDRIS, London Regiment, son of Mr. T. H. Williams-Idris, F.C.S., has been gazetted temporary lieutenant.

LANCE-CORPORAL WALTER DOWNTON, who has been awarded the Distinguished Conduct Medal for conspicuous bravery during the fighting on the Gallipoli Peninsula, was formerly employed with W. E. Bingham & Co., wholesale perfumers, Studshill Manchester Shudehill, Manchester.

Mr. J. D. Garner, chemist and druggist, Manchester and Liverpool district representative of Southall Bros. & Barclay, Ltd., has joined the Inns of Court O.T.C. Mr. Garner will resume his position on his return. In the meantime Mr. Charles F. Jones has been engaged to represent the house.

Mr. S. Meadowcroft, of Levinsteins, Ltd., chemical-manufacturers, Crumpsall, Manchester, who was making a trip to America for the benefit of his health, was among the rescued passengers from the White Star liner Arabic, which was torpedoed in the Irish Sea by a German submarine on August 19.

SECOND-LIEUTENANT R. W. CARTER, 6th Battalion Royal Dublin Fusiliers, youngest son of the late Mr. R. W. Carter, the Medical Hall, Naas, has been wounded at the Dardanelles. He is well known in hockey circles, having been for several seasons one of the famous "Hibernian

wards. He represented Ireland against Scotland in 1913.

Mr. H. F. Hodgson, Ph.C., Brentwood, Essex, has had an exciting war experience while on a holiday on the Cornish coast. When taking photographs he came under the observation of a military patrol, who required him to submit his films to the authorities for inspection. Happily, Mr. Hodgson was able to satisfy them as to his innocent intentions.

CORPORAL J. E. McNeill, R A.M.C., attached 1st Battalion Royal Inniskilling Fusiliers, has been awarded the Distinguished Conduct Medal for conspicuous bravery in carrying the wounded off the field under heavy fire. Corporal McNeill was formerly assistant with Mr. James Glendinning, Ph.C., Waterloo Place, Londonderry. He returned to the Front last week, after leave, which was spent in Londonderry

Londonderry.

Mrs. P. Larballestier, of the Jersey Eau de Cologne Factory, St. Helier, Jersey, has six sons serving with the Colours in various capacities. Three of them arrived in England recently with the third Canadian Contingent; one is serving on board a transport; another joined the Jersey Overseas Contingent (Royal Irish Rifles); and the sixth is doing his share when occasion requires in the local militia—the fact that he has charge of the business preventing him from serving further afield. from serving further afield.

Mr. George Webster, formerly of Lancaster, and now a chemist in Cape Province, South Africa, has been serving in the Mounted Field Ambulance with the South African Forces in the late German colony in South-West Africa. Writing from Karibib to relatives in Lancaster, he mentions that he closed his pharmacy to join the South African Field Force. They had a trying march and sometimes "starved" on two biscuits per day. This was, however, exceptional, as they usually had plenty of meat, sugar, and coffee.

THE KING EDWARD VII. MEDICAL SCHOOL, Singapore, uses "The Art of Dispensing' as one of its text-books in the pharmacy course.

# English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Dr. Waldo on Prescriptions, Laudanum, etc.

Dr. F. J. Waldo, City of London Coroner, concluded,

on August 25, an adjourned inquest concerning the death of George A. Whilten (63), shipping agent, 90 Lower Thames Street, E.C., who died there on August 6. The case had been adjourned to allow of an analysis of the stomach-contents, Dr. Bunsted, who conducted the postmortem examination, being unable to exclude the possibility of poisoning. Dr. Frederick Womack, St. Bartholomew's Hospital, now stated that he had analysed the stomach-contents but had found no trace of poison. No fewer than twenty-five doctors' prescriptions and fourteen bottles of medicine and tabloids were found at deceased's office. Two small bottles contained dangerous drugs. In witness's opinion death was due to a pulmonary embolism. Replying to the family solicitor, Dr. Womack said he could not say deceased was a faddist in the matter of taking proprietary medicines. The Coroner, in summing up, mentioned that among the drugs handed to and examined by him were: antipyrin, trional, and a compound of the same class-all in tabloid form and in quantity—also sulphate of quinine, phosphatc of soda, and other drugs. Dr. Waldo was of opinion that much harm is done by the abuse of prescriptions used without consulting the doctor and often borrowed from friends or comparative strangers, on the assumption that

friends or comparative strangers, on the assumption that the symptoms of the user are caused by the same disease for which the prescription was originally written. In his annual return for 1914 he had gone somewhat fully into this question as well as that of the too easy purchase of powerful drugs and poisons such as laudanum. He gave in his return four alternatives with a view to remedying the prescription evil, the chief being that provision should be made so that a prescription could only be made up a second time after being initialled by the prescriber. With regard to the dangerous practice of chemists being allowed to sell two kinds of laudanum of different strengths, he was pleased to see that correspondence between himself, the Privy Council,

acting properly in assisting the sale of any preparation of opium that does not comply with the requirements of the B.P. 1914. He had clearly expressed his opinion in his return, which had been forwarded to the various authorities interested. As regards patent and proprietary secret nostrums, the question is a difficult and intricate one. The Government is interested, since

and the Pharmaceutical Society had been referred by the Privy Council to the General Medical Council for their

opinion as to whether the Pharmaceutical Society is

and intricate one. The Government is interested, since it annually gains upwards of 250,000l. from the stampduty. Other interested parties are the newspaper proprietors and vendors of quack secret so-called cures. The jury returned a verdict of death from natural causes.

[Dr. Waldo's report referred to in his remarks was commented upon in the C. & D., May 8, p. 50. In it he recommended the Privy Council not to allow the name laudanum to be used except for tr. opii, B.P. 1914. This and the Pharmaceutical Council's expression of opinion on the subject were recently submitted by the Privy Council to the General Medical Council (C. & D., August 14, p. 35). At present it is in accordance with the law to sell any preparation of which the formula is given in an old Pharmacopæia, provided (in the case of articles also prescribed in the current Pharmacopæia) a distinction, if any exists, is understood by the purchaser at the time of the sale. Many articles of this nature are still in daily use. This fact appears to have been recognised by the Pharmacopæia Committee of the General Medical Council is considering the matter, the Privy Council having questioned (as Dr. Waldo remarked) "whether the Pharmaceutical Society is acting properly in assisting the sale of any preparation of opium that does not comply with the requirements of the new edition of the British Pharmacopæia." This question does not, in our opinion, arise from the Society's reply to Dr. Waldo, but rather the larger question: Is it illegal or not to continue to sell old Pharmacopæia preparations on demand? It is to be hoped that the Pharmacopæia Committee will consider this.—Editor C. & D.]

Glass-trade Dispute.

Representatives from the National Federation of Glass-bottle Makers and the British Federation of Glass-bottle Workers met Sir George Askwith, Chief Industrial Commissioner, in London on August 27, with reference to a dispute which has arisen between the two Unions on a wages award. It appears that a certain section of the British Federation claimed higher wages, and they secured an award from the Board of Trade. The National Federation raised an objection to the award, and the matter was referred to Sir George Askwith. At the close of the Conference, which lasted over three hours, it was stated that a meeting of the Unions will take place in the near future, and that there is every prospect of the dispute being settled amicably. There is also a suggestion that the Unions should amalgamate.

Swine Fever.

The Committee on Swine Fever appointed by the Board of Agriculture and Fisheries state in their final report to the President they have come to the conclusion that the attempt to extirpate the disease by general slaughter should be abandoned for the present, and that the immediate object of future policy should be the reduction of mortality, and the control of the spread of the disease. They make the following recommendations:

That the use of protective serum without avoidable delay in infected herds should be encouraged by every possible means, and in particular by facilitating the supply of

serum.

That the production of immune herds by simultaneous administration of serum and virus should be undertaken where pig-owners so desire on premises selected as suitable and under careful supervision and restrictions.

and under careful supervision and restrictions.

That the isolation of infected premises should be maintained by restrictive regulations, but that such restrictions should allow of the introduction to infected premises of

pigs to be treated immediately with serum.

That careful consideration should be given in the light of

further experience to the extent to which existing general restrictions on movement may be relaxed as the result of new measures.

That the lapse of a short period of time [a fortnight is suggested] may be relied upon for disinfection of premises, and should be regarded as preferable to chemical disinfection in the case of large quantities of mamure and of premises not readily capable of being disinfected by artificial means.

The members of the Committee are strongly impressed by the possibility of artificial vaccination as a method of combating swine fever, and recommend that investigation on this matter should be continued. They find that rats are not pathological carriers of the disease, nor is it propagated by external parasites, and, while infection may be carried locally by persons, vehicles, or animals in contact with infected pigs, wide dissemination is due to the movement of pigs.

Birmingham.

The belladonna plants at Atherstone are to be uprooted and burnt on the suggestion of the medical officer of health.

Lady assistants are to be seen behind the counter and at work behind the dispensing-screen in many pharmacies in the city and suburbs.

During the past week the chemist's shop of Mr. L. C. Morris, 8 Bordesley Green Road, was put up for auction and sold, "at short notice, absolutely without reserve."

In the absence of horses, drivers, and errand-boys, the tradesmen of the city are sending their assistants to deliver parcels, with instructions to make full use of the tramway system.

An apprentice may not leave his employment to enlist without the sanction of his employer, and can be released on application to the Police Court of his district. So it has been decided locally.

The commercial travellers of Birmingham held a garden fête at the Edgbaston Botanical Gardens last week. They have decided to endow three cots, at one hundred guineas each, at their schools at Pinner.

Colonel Wyley, V.D., Regimental Commandant of the Warwickshire Volunteers, has resigned, and is succeeded by Colonel O. F. Lewis, C.B., Park Hall, Salford Priors, Evesham. In the orders Colonel Wyley pays the officers

and men very high compliments, and congratulates all on their efficiency and willingness to undergo severe training and the inconvenience of camp life in very inclement weather.

Mr. Gretton Watson, of Alcester Lanes End, arranged an excellent afternoon's enjoyment for local pharmacists and their ladies at the Highfield Cricket Club's grounds recently. An important panel meeting in town prevented many from attending, but their ladies graced the proceedings, and an impromptu match was played. Refresh ments and bowls were also provided. It is hoped that a fresh effort will be made to secure a good attendance on a future occasion before the summer season is closed.

Liverpool.

"Leave your headache here" is the inviting line to be seen in the window of a pharmacist.

Life-saving "rests" have been added to the windows of pharmacists who supply requisites to cross-channel and oceanic passengers. Several sports outfitters are competing with kindred goods.

Each customer of a local chemist and druggist receives a ticket bearing the amount and date of his purchase, coupled with "Received with thanks." The reverse side of the ticket bears an advertisement-e.g., "Children like fruit. When they need medicine give them syrup of ffigs.

A round of the wholesale houses in or near to Hanover Street this week shows that winter orders are accumulating and deliveries being promptly performed. Packingroom tables indicate that, in the season's demand, codliver oil emulsion and extract of malt and cod-liver oil take prominence.

In order to tide over the bottle famine tin boxes are being substituted in the packing of some kinds of tablets and kindred dry goods, while to economise in the use of time cardboard boxes coated with tinfoil are being used. So far as practicable "soldiers' comforts" are being sent out in tin boxes and the cardboard boxes reserved for the home market.

Professor J. Share-Jones, of the University of Liverpool Veterinary School, on whom lately a doctor's hood has been conferred, is spending a second vacation in the service of the Purple Cross of the French Army. He is accompanied by ten of his students, the whole party giving their services free. Many past students of the University Veterinary school are serving with the Colours, several having given up lucrative posts in Burmah, the Argentine, and South Africa in order to join.

A leading senior and much-travelled retail pharmacist,

on being asked the state of trade, replied:

"Chemists were never doing business at a less margin of profit than to-day. To begin with, we are paying more per ounce than formerly per pound for some largely used drugs. In too many lines Germany has been the manufacturer and England the mere broker. Bottles have doubled in price owing to the scarcity of British labour, and even at the higher price the supply is inadequate. Let folks who have empty bottles in their homes send the lot clean to the chemist, and he will pay cash. I do not make up many Insurance prescriptions, and those as a rule only for the servants of my clients, but there, again, loss stares me in the face. Over 201, of, arrears had accumulated at the close of 1914, and already I am 121. in arrears for the first half of 1915."

#### Sheffield.

Mr. F. Medley, chemist and druggist, has established his Page Hall Road business as a Rexall Pharmacy for the Pitsmoor district of Sheffield.

Mr. J. E. Alcock, Ph.C., Glosson Road, has disposed of his business to Mr. G. F. Leighton, chemist and druggist, who is a local man, having served his apprenticeship with Mr. J. Gilbert Jackson, Abbeydale Road. Mr. Leighton is taking up dentistry along with this oldestablished business.

The public examination took place at Sheffield County Court recently of Burrows & Sons, trading as J. Roper & Co. and the Sheffield Drysaltery Co. Debtors owe to assets at 1,390%. They attribute their failure to railway and coal strikes, but the war made matters hopeless. The Registrar ordered an adjournment until October 7.

Miscellaneous.

THE LATE MR. ENO.—The pictures and furniture of the late Mr. J. C. Eno are to be sold by auction at Wood Hall, Dulwich, on September 16.

THE CONFECTIONERS' AND GROCERS' EXHIBITION will be held at the Royal Agricultural Hall, London, N., from September 4 to 11 at 10 A.M. each day.

BRIGHT LIGHTS .- At Beverley (Yorks) on August 30, Mr. T J. Morley, described as a chemist, Toll Ganel, Beverley, was fined 10s. for a breach of the military lighting order.

FIRE.—At midnight on August 28 a fire occurred in a back room at the premises of the Timothy White Co., Itd., Fawcett Road, Southsea. The outbreak was subdued before material damage was done.

Petry Thefts.—At Docking, Norfolk, on August 30, Robert F. Sager, an actor, was fined 2l. for stealing two pipes, value 1s., from the shop of Mr. John Stratton, chemist, Burnham Market, on August 13 and 16.

Golfing Society at Ealing on Thursday, August 26, Mr. F. Mitchell won the "British and Colonial Druggist" Cup, Mr. J. Jones being second and Mr. A. Boyes third.

THE QUESTION OF "PACKAGES" in the drug-trade is becoming more acute, owing to their increasing cost. Bottles are difficult to obtain, but it is not so much a question of price as obtaining delivery, and wholesalers have to be content with much would be content. with much smaller quantities.

ALCOHOL PRIZES.—The "Board of Trade Journal" again calls attention to the prizes offered by the Russian Government for methods of denaturing alcohol and new uses for manufactures. Particulars were given in the C. & D., May 8, p. 602, and June 5, p. 39.

Poisoning Cases.—Four persons have died as a result of taking poisons with suicidal intent during the week. of taking poisons with suicidal intent during the week. The substances implicated were carbolic disinfecting-fluid, morphine, oxalic acid, and spirit of salt. A child died at Yateley, near Reading, through eating tablets containing strychnine which she had mistaken for sweets, and a German prisoner interned at Dorchester died through accidentally taking carbolic acid.

St. Alpans Guardians last week considered a letter from the Medical Officer (Dr. T. P. G. Wells) asking the Board, in view of the increase in the prices of drugs, to provide a supply of drugs at the Infirmary. The Clerk stated that Dr. Wells's contract provides that he is to supply medicine, but not expensive drugs. The question was referred to the House Committee.

ESSENTIAL OILS FROM GERMANY.—Herman Michelsen (50), a Russian subject, lately a liqueur-manufacturer, of Antwerp, but now living in Highbury New Park, Islington, was on September 1 fined 150%, or three months' imprisonment, at the North London Police Court for attempting to trade with the enemy by getting essential oils and bottles from Germany (C. & D., August 28, p. 48).

Disposit of Nature Care—The Chemical Society and the

Disposal of Nitre Cake.—The Chemical Society and the Society of Chemical Industry have been asked to make suggestions for the disposal of very large amounts of nitrocake which is produced in Kent. It contains about 17 per cent. of available sulphuric acid. Communications should be made to Mr. C. G. Cresswell, Secretary of the Society of Chemical Industry, Broadway Chambers, Westminster, S.W.

TOOTH-BRUSHES FOR SCHOOL-CHILDREN.—In the annual report of the school medical inspector at Rochdale it is suggested that scholars might be supplied with tooth-brushes through the teachers at an average cost of 2d. each, the teachers using the opportunities thus presented of giving serviceable instruction on mouth hygiene. Harmful teething-powders (often containing mercury) and baby-comforters are condemned in the report.

EXPLOSION IN CHEMIST'S SHOP.—At Thames Police Court on August 31. Henry Edward Haines was charged, on remand, with unlawfully and maliciously placing in the shop occupied by Mr. G. W. Hatfield, chemist and postmaster, 817 Commercial Road, E., a quantity of gunpowder with intent to damage the building (C. & D., August 28, p. 45). Mr. Leyecster now said he had received a report from the variety determined and received and received to the informatics. prison doctor and accused would be sent to the infirmary.

MUNIFICENT GIFT TO GUY'S HOSPITAL.-It is officially nounced that the Commercial Union Assurance Co., Ltd., acting as trustees and executors of the will of the late Sir William Dunn, Bart., have handed to the Governors en behalf of Guy's Hospital Medical School 25,000% of new War Loan unsecured creditors 3,046l., to fully-secured creditors 1,195l., leaving a deficiency of 1,673l., with estimated called "The Sir William Dunn Lectureship in Pathology." Store Prices.—In the members' eircular of the Civil Service Supply Association, Ltd., London, two pages are devoted to the drug department. Seasonable lines, such as fly-papers, mosquito-lotion, and nerve-food are illustrated, and special prominence is given to salines, citrate of magnesia, toilet preparations, moth tablets, and insect-powder. Fully half the space allotted to the drug department is taken up with lists of recent additions to stock and revised prices.

Spurious Disinfectants.—The "Sanitary Record and Municipal Engineering" of August 20 contains a note on "Spurious Disinfectants," and the need for the education of the public in regard to the properties of disinfectants and the proper methods of using them. It is suggested that local authorities should move in the matter, and that clear and explicit directions should be issued to householders. They should be told what disinfectants to use and how to use them. They should be instructed on simple but important points of sanitary science, of which they are at present weefully ignorant; and, above all, they should be warned against wasting their money on trash.

LUMP SUGAR is scarce at present because it requires the employment of extra labour, so that the manufacture of it is restricted in consequence. A granulated sugar from the Mauritius, which is slightly cheaper, is now largely taking its place. This is a pure eane sugar, whereas lump is often a mixture of beet and cane. Lump is, however, preferable for making jam because, having been dried, it sets better. There is plenty of sugar in the market at present. In Java they have had this year the finest erop yet recorded. The only deficiency is in Dutch crushed and preserving sugar. The beet-sugar, which formerly came from Belgium and Austria, is not now available, but there will soon be supplies of English beet in the market.

FITTHE COMPETITION WITH GERMANY.—Sir William Ramsay, K.C.B., writing in "Nature" (August 26, p. 705), comments on a recent issue of the "Bulletin d'Encouragement pour l'Industrie Nationale" which is of special interest, as it gives the views of men, each eminent in his own particular sphere, on the reasons why much of French trade has been captured by the Germans, and also their suggestions for preventing the aggression of the Germans after the war. Sir William says that the impression gained from these articles is that German trade is largely fraudulent, sometimes honest, always methodical; that it is regarded as the duty of the State to support it by all means, moral and immoral; and that France must take steps to exclude it if she is to retain her position as a manufacturing nation. He suggests that the necessary steps should be taken in concert by the Allies.

## Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. 'The items should be indicated,

#### Dundee.

The dinner-hour closing scheme is not working smoothly locally. Several chemists have refused to agree to close at all, and several have given notice to discontinue closing on the ground that it is inconvenient to their customers. A fresh effort is to be made to keep the scheme in operation.

#### Edinburgh.

One or two local chemists have considerably brightened their already up-to-date pharmaeies this summer by placing vases of fresh flowers on their counters and showcases.

Mr. T. Jardine, town representative of T. & H. Smith, Ltd., has received a cheerful letter from his son, Lieutenant Jardine, attached to the 1/5th Battalion Royal Scots at the Dardanelles.

The latest addition to St. Cuthbert's Co-operative Association's chemists' shops—in Morningside Road—will shortly be opened for business. Chemists in the district seem to be taking their latest rival very quietly, the secret being, perhaps, that in a district like Morningside the "Store" would best flourish in a side street.

It is a bit galling to chemists sometimes to note the difference between a doctor's prescriptions for a panel patient and those for a soldier's or sailor's dependant. One medical man is at present showing a very marked contrast in this respect. His panel patients' mixtures average about 3d. each, and a pharmacist was called

npon to dispense free a 3-oz. inhalation—which would have retailed at about 1s, 8d.—and an ointment worth a shilling retail.

#### Fife.

The increased cost of S.V.M. has had the effect of stopping demands for this article by undesirables, much to the satisfaction of chemists.

There is a general movement to reduce the working hours on Sundays throughout the county, Already several chemists on the coast have struck off the opening at midday.

There has been increased prescribing of antipyretics in the county recently, consequent upon an outbreak of enteric fever, which the authorities have good hopes of stamping out soon.

#### Glasgow and the West.

The scarcity of qualified men is increasing; they can get almost their own figure, and it, too, is increasing.

Mr. W. E. Taylor, wholesale chemist, 52 St. Enoch Square, has been appointed sole agent for Scotland for Sister Laura's Food.

With the "fall of the leaf," City windows are paying the way for winter business. Summer lines are giving place to winter comforts, chest protectors and hot-water bottles being the pioneers.

Claims against the late Robert Brock Galbreath, or his firm, Galbreath Bros., chemists and druggists, 92 Causey-side Street, Paisley, are to be lodged with James Caldwell & Co., writers, County Buildings, Paisley.

Surgical dressings and appliances are being stocked by chemists and druggists in increasing quantities. This is the result of the demand for supplies to be enclosed in parcels for the Front. Water-sterilising tablets are in great request.

According to the "Glasgow Evening Times" the Glasgow District Council of the Shop Assistants' Union has started an organising campaign among chemists' assistants in the city as a preliminary to demanding a minimum wage for employees in pharmacies. It is stated that a fair number of assistants have already joined the Union.

Country chemists in the West are finding considerable competition in the sale of "patents" by the motor delivery vans of large grocery establishments. The patents are generally ordered from the vanman and delivered next run. It is thought this may form a very interesting case under the Medicine Stamp Acts, as vans cannot be licensed for the sale of stamped medicines.

# Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

#### Brevities.

Mr. James Stirling, Ph.C., late of McCully & Co.'s-pharmacentical establishment, Londonderry, has opened a pharmacy of his own in Dromore, co. Down.

Mr. J. Stewart Waddell has been appointed representative for the whole of Ireland for Armour & Co., Ltd., Atlantic House, Holborn Viaduct, London.

Lieutenant Ewen Cameron, son of Sir Charles Cameron, Dublin, shot himself on August 28 in a train on the Dublin and South-Eastern Railway. Mr. Cameron had suffered from depression.

A fire was discovered in the upper portion of the premises of Hayes, Conyngham & Robinson, Ltd., Grafton Street, Dublin, shortly after four o'clock on August 30. The fire-brigade subdued the outbreak before much damage was done.

Mr. Fawcett Maxwell, Ph.C., Dalkey, eo. Dublin, has opened a new pharmacy specially built for the purpose. The new premises contain stores, assistants' quarters, and pharmacy. Southall Bros. & Barclay, Ltd., Birmingham, have put in a very handsome front, and the floor of the shop, measuring 32 ft. by 24 ft., is covered with mosaic tiling. The premises make a handsome landmark in this charming suburb.

# French News.

(From the "C. & D." Paris Correspondent.)

Cocaine-hawkers.—Arrests of eoeaine-pedlars have been increasingly frequent of late. A profit of 8/. per day is said to be not unusual among those who hawk the little packets of white powder round the cafés and brasseries of Montmartre. Even in this branch of in-dustry there is room for fraud, and it is stated that some packets of alleged coeaine contain nothing more harmful than powdered chalk.

#### German Trade-marks.

Some time ago the Paris Society of Pharmacy adopted a proposal by M. Vicario specially to study the question of foreign-manufactured pharmaceuticals, etc., and nominated a Committee, including MM. Bourquelot, Grimbert, Guerbet, Moureu (Professors at the Superior School of Pharmacy), Martin, Meillère, Pépin, Poulenc, Thibault, Tiffeneau, Vaudin, Vicario, and Dufau. A report, drawn up by the last-named on behalf of the Committee, has now been presented to the Society. This deals with (1) the "title trademark," a name, more or less fantastic, used to designate a new product—e.g., "antipyrine" and "phenaeetin"—duly registered at the Tribunal de Commerce as a private trade-mark, and protected in principle by the Trade-mark Aet of June 25, 1857. (2) The "patronymic mark," or trademark based on the manufacturer's name, which comes under hat of June 25, 1851. (2) The "patronymic mark," or trademark based on the manufacturer's name, which comes under the Act of July 28, 1824. Numerous and important lawsuits have been instituted to protect title trade-marks, the best known being the antipyrine ease fought by the Seine Syndicate. The greater part of the chemical medicaments used in modern therapeuties have been introduced to French doctors by German manufacturers under registered titles. A false interpretation of the Act of 1857, and the neglect of the law of 1844 on patents, have enabled these firms to monopolise the titles of, and consequently the market in, certain products. Professor Robin has suggested two ways of dealing with this matter, neither quite practicable, and in the opinion of this matter, neither quite practicable, and in the opinion of the Committee the real solution seems to be the simple resolution passed long ago by the French Pharmaeeutical Associations—viz., "That no denomination given to a medicament shall by itself constitute a privately owned and exclusive trade-mark." Professor Jungfleisch came to this conclusion as far back as 1894, and proposed to insert such a provision in the next Pharmacy Act. "An exception similar to that which the 1844 Act established for patents of inventions," he judiciously observed, "would thus be made for trade-marks, and the Acts of 1844 and 1857 (at present used one against the other when pleading cases) present used one against the other when pleading cases) would thus be put into harmony one with the other." As a matter of fact, the inventor or owner of a chemical medicament seeks to place his mark under the 1857 Act, hoping thus practically to obtain the monopoly which the 1844 law refuses; but the Pyramidon ease shows how easily this protection can be broken. Various court decisions on the matter have been summed up thus by "La Loi": "The name under which the inventor of a new medica-

ment makes it known to the medical world immediately becomes the name of the product itself, and thus immedi-

ately becomes public property. ately becomes public property." This point cleared up, the matter appears simple. Let doctors prescribe "Codex Aspirine." "Codex Aristol," etc., and pharmacists will dispense the French Pharmacopæia artiele. Unfortunately the Codex is never up to date, so that all new medicaments would enjoy years of monopoly, and it is just these new medicaments which many doctors prescribe so frequently. On the other hand, the Court of Cassation has decided (December 8, 1906) that "the fact of delivering, even against a medical prescription, products not inscribed in the Codex or the Bulletin of the Academy not inscribed in the Codex or the Bulletin of the Academy of Medicine constitutes a sale of secret remedies," and the sale of secret remedies is forbidden by the Law of Germinal. Here, then, we seem to find a solution. Let all new and approved remedies which have not been included in the last edition of the Codex be published in the Bulletin of the Academy. This would imply a serious examination of new remedies by the Academy of Medicine and their acceptance or refusal. The learned body seems fully armed by the decrees of 1810 and 1850 to make such examination and to pass judgment by the serious contraction. and to pass judgment, but appears to have always hesitated to assume what is certainly no light responsibility and implies considerable and constant work. Such is the substance of M. Dufau's report which, having been circulated. was discussed at the recent meeting of the Society of Pharmacy. M. Tiffeneau complained that it did not entirely represent the Committee's views, as the contrary opinions

expressed were not given. M. Guerbet and M. Dufau having replied to this, M. Crinon asked if it were not undesirable that the Society should appear to encourage pharmacists to take over the title trade-marks before the Courts authorised them to do so? M. Dufau replied that he had consulted Association officials and found them ready to support any pharmacist who might be prosecuted for doing this. M. Bourquelot said the Academy of Medicine's resolution tending to destroy the validity of the title trademark was a step forward, for this had been asked for by Pharmaceutical Associations, as M. Crinon had mentioned, for forty years. M. Crinon explained that the 1857 Act was for forty years. M. Crinon explained that the 1857 Act was really framed for marks constituted by designs, etc., but the text was formal and covered titles. Personally, he considered that the title trade-mark should be accompanied by the patronymic or maker's name when usage had rendered employment of the title indispensable. M. Fourneau, as an ex-retailer, sincerely desired to ensure the harmony of manufacturers and pharmacists. He thought the title should remain the exclusive property of the interesting from the content of the content of the interesting from the content of the interesting from the content of the ventor for a period long enough to enable him to obtain a fair and just equivalent for his researches, say fifteen years. In the case of foreign medicaments such a measuro might be applied in a retroactive sense. The Chairman put to the meeting a motion, the first two paragraphs of which were adopted—viz.:

"That no denomination given to a defined product employed as a medicament can by itself form a private

trade-mark."
"That a resolution regarding the right to patent the processes of manufacture of all chemicals, even those not possessing therapeutical properties, be presented to the authorities."

The third paragraph (also adopted) was as follows:

"The Society of Pharmacy... demands the immediate publication of a Codex Supplement comprising the prinpublication of a Codex Supplement comprising the principal defined chemical products used in therapeutics, with their usual names, their composition, and their characters. While awaiting this official publication the Society of Pharmacy will draw up a list of these products, will print their nomenclature and nature in the 'Journal de Pharmacie et de Chimie,' and will demand carly insertion in the 'Bulktin de Pharmacie et de Chimie,' and will demand carly insertion in the 'Bulktin de Pharmacie et de Chimie,' and control of the decime.'

Pharmacie et de Chimie, and will demand early insertion in the 'Bulletin de l'Académie de Medeeine.'"

M. Tiffeneau asked if this list would include German products only or French also? M. Guerbet said it would include all, the nomenclature adopted by the Paris hospitals being taken as a base. M. Guinochet thought that after the concording views of learned Societies a jurisprudence would be established which would satisfy retail pharmacists M. Bourquelot added that proposals might be made to the Academy of Medicine with a view to return to the application of the decisions of 1850, and to harmonise the law on secret renedies with existing conharmonise the law on secret remedies with existing con-

# German News.

THE COMMANDEERING OF METALS has been extended to aluminium in quantities exceeding 25 kilos.

RUBBER SUBSTITUTE.—Successful attempts are reported in the use of glue in making a substitute for rubber tubing. The tubes are called "Sonjatin" and cost about  $6\frac{1}{2}d$ . a yard. They are impervious to gases and more resistant to heat than rubber, but will not withstand water.

Chamomile-Gathering.—Gathering of cornflowers, chamomiles, and other plants that grow amid corn is prohibited in Germany, in order to prevent the corn being trampled Persons who gather chamomiles for medicinal purposes are not allowed to collect them in the cornfields.

poses are not allowed to collect them in the cornhelds.

SCARCITY OF MINERAL-WATER BOTTLES.—Bottles for mineral waters have become searce like other kinds of bottles. The Central Committee of the German Red Cross puts at the disposal of women who desire to prepare fruit and vegetables for the sick and wounded soldiers glass bottles with rubber rings at low prices—viz., 25pf. per bottle of half-a-litre capacity. In ordinary trade these bottles are scarce and dear, or even not obtainable at all.

GATIERING OIL-SEEDS.—In articles in the daily Press and

GATHERING OIL-SEEDS.—In articles in the daily Press and in all the pharmaceutical and chemical papers the attention of the German people is drawn to the fact that oils and fats are becoming alarmingly searce in Germany, and that it is a matter of the highest importance to collect all oil-containing seeds that are to be found in Germany, such as the kernels of cherries, apricots, peaches, grapes, and plums, and the fruits of sunflowers and of beech-trees. The "Landesauskunft für Volksernährung" explains the way the fruit-kernels should be treated in order to prevent corruption. It is suggested that in small towns and villages pharmacists will certainly be willing to arrange for tho eollection and to give instructions about the matter.

# South African News.

(From "C. & D." Correspondents.)

The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

#### The Union.

Appointing Agents.—The office of H.M. Trade Commissioner in South Africa suggests that manufacturers and others in the United Kingdom who may be contemplating the opening-up or extension of trade in the South African market would be well advised not to defer taking the necessary steps to that end until the conclusion of the war. On the contrary, it is suggested that the time to organise their South African trade is now, so that immediate advantage may be taken of the opening that will exist so soon as the difficulties created by the war disappear. Competitors with Great Britain are making strengous efforts, and not merely with respect to the capture of German trade, and it is desirable that British firms should not lose the time that could be employed in profitable trading during the first months of peace by having to complete agency and other arrangements.

#### Cape Province.

Mr. John Sacks, Johannesburg, has acquired the business of Glendinning in Hont Street, Cape Town.

A War Contingent.—Writing on August 14, the C. & D. correspondent says: "South Africa is raising a contingent for the war in Europe. This week has been a recruiting week in Cape Town, and men have answered the call in fine style. I hear of several chemists who intend joining. Mr. Lionel Walsh, of Lennon, Itd., has already been accepted, and has proceeded to where they are mobilising the men." the men.

SHOP HOURS.—The Cape Town City Council put the Shophours Act into force on August 23. The majority of shopkeepers have been observing the Act since June 1, when it was promulgated in the "Gazette." Chemists are parwas promulgated in the "Gazette." Chemists are particularly pleased with the change, and the fears of a good many of them that returns would be adversely affected have proved groundless. Business is now transacted earlier in the day, and the public are becoming quite educated to the seven-o'clock closing.

#### Transvaal.

Mr. Benjamin Owen Jones, F.C.S., the new President of the Pharmaceutical Society of the Transvaal, hails from Llanidloes, North Wales, He



was for five years with Lamp-bugh, Ltd., Holborn Via-duct, London, E.C., and went to South Africa, in 1888, as assistant to D. R. Crow & Co., Pretoria. He remained there a year, and was transferred to Boksburg as branchmanager. manager. Shortly after Mr. Jones established himself in husiness at Boksburg, and prior to the Anglo-Boer war converted the business into a limited-liability company, which now control ten shops besides the head establishment in Boksburg. He was President of the Boksburg Chamber of Commerce for circle traces and was dested. Mr. B. Owen Jones.

cight years, and was elected first Mayor of the town, an office which he has beld on three occasions. He represented Boksburg West in the first

Transvaal Parliament, and later was a member of the Provincial Council. He was the Government nominee to the Transvaal Pharmacy Board on its foundation, and is now an elected member. He has been President of the Pharmacy Royal for the contract Provident of the Pharmacy Royal for the Province Royal for the Provi macy Board for three consecutive terms of three years each, and was examiner in pharmacy and materia medica. For the past ten years he has been Chairman of the Boksburg Hospital Board.

MR. P. A. BARKER, the newly elected Vice-President of the Pharmaccutical Society, comes from Cambridge. He served his apprenticeship with Alderman A. S. Campkin, of that town, and was afterwards for some years with Mr. F. A. Rogers, Oxford Street, London, He went to South Africa about ten years ago, and is in business at Turffontein. He takes a great interest in local affairs, and is Chairman of the Southern Suburbs branch of the Governor-General's War Fund and also of the Turffontein Operatic Society. He is a keen sportsman, excelling in golf and tennis.

Pharmaceutical Training in South Africa.—At the thirteenth annual meeting of the South African Association for the Advancement of Science, held at Pretoria in July, Professor J. A. Wilkinson read a paper on "The Profession of Pharmacy." He urged the need of reform and pointed out that South Africa as yet offers no pharmacentical training in any of her colleges, and that materia medica and toxicology are nowhere taught.

#### Pharmaceutical Society of the Transvaal.

Pharmaceutical Society of the Transvaal.

The seventeenth annual general meeting was held at the Grand National Hotel, Johannesburg, on July 22. The meeting was well attended. Among those present were Messrs. H. Wheildon (President), J. Main (Vice-President), Professor J. A. Wilkinson, B. Owen Jones, J. Christie, A. Rennie, A. Purnell, P. A. Barker, A. Maedonald, C. Keir, I. P. Jones, J. O. Thomson, Alex. Anderson, J. Heymann, H. L. Karnovsky, J. George, A. H. Young, W. E. Hodson (Hon. Secretary and Treasurer), and F. G. Mansfield (Assistant Hon. Secretary). The principal item on the agenda was the election of the Committee for the year 1915-16. The following were elected: Messrs. B. Owen Jones (Boksburg), President; P. A. Barker, Vice-President: E. J. Adcock (Krugersdorp), W. Whyte (Roodepoort), H. Wheildon, A. Rennie, E. L. Ralling, C. Keir, A. Purnell, J. Christie, and A. Anderson. Mr. H. Wheildon, the retiring President, in moving the adoption of the annual report and balance-sheet, reviewed the work done during the past year. The regulation of retail prices had taken up a considerable amount of the Committee's time, and it was a matter for congravitation that the Act of the control of the committee of the control of the contr The regulation of retail prices had taken up a considerable amount of the Committee's time, and it was a matter for congratulation that the retail price-list is now working satisfactorily. He pointed out the strong financial position of the Society, which, considering the present state of the country, was very gratifying. The Committee had issued a memorandum dealing with the new British Pharmacopoia, which became official in the Transvaal on July 1. The publication of this memorandum has been much appreciated publication of this memorandum has been much appreciated both by the members and by the medical profession. An arrangement has been made between the Society and the local branch of the Governor-General's Fund with regard to the dispensing at a nominal figure of prescriptions for dependants of members of the Defence Force. The arrangement is working smoothly. Mr. Wheildon went on to say that five members of the Society have been on active services that the services of the Society have been on active services that the services are the servic terms to their patriotic action. In closing his remarks, the President paid a warm tribute to Mr. Mansfield (the Assistant Hon, Secretary) for the valuable services he had rendered to the Society during the past year; he thanked the outgoing Committee for their loyal support during his term of office. Professor Wilkinson then addressed the meetterm of office. Professor Whenson then addressed the meeting on the education of pharmaceutical students, and urged chemists to give every facility to students in their employ to enable them to attend the special course of classes held at the South African School of Mines and Technology for the Final examination. In order to attain as high a standard as possible, he urged that the examination he divided into two parts. He considered it unfair to expect canditates the examination for give review subjects. dates to come up for examination for six or seven subjects at the same time and yet maintain a high standard. Speaking of reciprocity between Great Britain and South Africa, ing of reciprocity between Great Britain and South Africa, he thought, once the South African Provinces have combined their examinations and have one Pharmacy Board and one examination for the Union, recognition will be forthcoming. On behalf of the South African School of Mines and Technolory, he thanked Mr. B. Owen Jones for presenting to the School an excellent and complete set of materia-medica specimens. A vote of thanks to Professor Wilkinson for addressing the meeting was also given. The new President (Mr. B. Owen Jones) and the new Vice-President (Mr. P. A. Barker) thanked the Committee for their election to their different offices.

Business Changes.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Mr. Charles Paine, chemist and druggist, Market Place,

MR. CHARLES PAINE, chemist and druggist, Market Place. Westbury, Wilts. has retired from business owing to ill-health, and has disposed of his pharmacy to Mr. Ernest A. Chard, chemist and druggist, late of Bristol.

MR. W. F. W. HUTCHIN, chemist and druggist. 43 Hight Street, Burnham (Som.), has taken his son, Mr. Ronald F. Hutchin, chemist and druggist, into partnership, and the business will in future be carried on under the style of Butchin & Son. Hutchin & Son.

MR. CHARLES K. GREGORY, chemist and druggist, Piermont Place, Dawlish, Devon, has transferred his business to Mr. S. R. Davis, chemist and druggist. The Strand, Dawlish, whose business will now be carried on under the style of Davis & Gregory.

# Legal Reports.

#### Trade Law.

Strychnine Vermin-killer by Post.—Before Sheriff Sym at the Court House, Perth, on August 24, Mr. Thomas Harley, chemist and druggist, Perth, pleaded guilty to an infringement of Section 17 of the Pharmacy Act, 1868, by retailing a solution of strychnine for use as a vermin-killer without conforming with the regulations for Part I. poisons. It appeared from the statements made to the Court that the vermin-killer had been ordered by post by a person not known to the vendor, the sale was not entered in the poison-book, and the bottle was not labelled with his name and address. A young woman had got hold of the bottle and took enough of the contents to kill fifty people. The inquiry that followed resulted in this action by the Pharmaceutical Society. The Sheriff imposed a line of 11., and 11. 3s. 10d. expenses.

11. 3s. 10d. expenses.

Trading With the Enemy Act.—At Bow Street Police Court, London, on August 31, the Concordia Electric Wire Co., Ltd., Crown Parade, Cricklewood, was summoned, ander this Act, for failing to communicate to the Public Trustee particulars of all shares of the company held for the benefit of an enemy. Robert Fifer, Esperanza, Meadway, Hampstead Garden Suburb, and Leopold Aron, otherwise known as Leopold Frank, Iris, The Drive, Wembley, were summoned, as directors of the company, for being parties to the default. Mr. Travers Humphreys supported the summonses on behalf of the Director of Public Prosecutions; Mr George Elliott, K.C., and Mr. Walter Frampton appeared for the defence. It was stated that the whole of the share capital is held by persons in England in trust for the parent company in Aldersdorf, near Berlin; also that the eompany was managed from Berlin, and the profits were remitted to Berlin. The Magistrate (Mr. Hopkins) ordered the company and each of the defendants to pay a fine of 250%, with twenty-five guineas costs against the company in addition.

pany in addition.

pany in addition.

Leaky Flash-lamp.—In the City of London Court on August 25, before Judge Rentoul, K.C., Mr. E. B. Holmes, special constable, 155 Mare Street, Hackney, sought to recover 11. 8s. 8d. damages from Mr. Percy Patterson, electrician, trading as the Electric Supply Store, 77 Fore Street, London, E.C., for injury caused to his clothing, owing to a defective flash-lamp purehased from defendant. Plaintiff's solicitor said the plaintiff bought a pocket electric lamp of the defendant on his guarantee that the plaintiff eould put it in his pocket without it leaking. When he put it in his pocket the lamp leaked owing to the accumulator being defective. He took it back, and a new accumulator was given to him, but that was worse than the first, Sulphuric acid leaking from the accumulator burnt plaintiff's clothing and did damage to the amount of the claim. Judge Rentoul thought that the bare fact that the defendant had sold the lamp was a guarantee amount of the claim. Judge Rentoul thought that the bare fact that the defendant had sold the lamp was a guarance that it was fit for use. An electric pocket-lamp was not fit for use if it leaked. Defendant contended that plaintiff handled the lamp carelessly. He did not sell the accumulator as being unspillable. An accumulator could not be made that would not leak. Plaintiff further said that when the lamp was attached to the terminals and started burning treated the acid to bubble up and escape. Defendant produced a lamp, which was put on the Judge's desk, lighted, and remained there until the end of the case without leaking. Plaintiff suggested if the lamp was put on its side it would probably leak. Judge Rentoul said the lamp had not leaked, but the defendance with the lamp had not leaked, but the defendant was responsible for leakage unless he could prove that electric pocket-lamps could not be made without leaking. Defendant: Every accumulator has loose acid in it, and if you turn it upside down it will leak. This is a very important question, and the whole industry of accumulator-making will be stopped if the decision is against me. His Honour thought it might be wise to settle the case, and he suggested that plaintiif might accept half the amount of his claim; but the defendant said he was either in the right or in the wrong, and that if the decision was against him pocket electric lamps made in the future would have to be stamped "Sold without a guarantee." The Judge did not think the plaintiff would have bought the lamp if he thought it would leak. In his view unleakable lamps could be made, and electric pocket-lamps ought not to be sold if they leaked. If the electrical trade was affected by the matter he would give leave to appeal against his decision, but he must find for the plaintiff, with costs. the lamp had not leaked, but the defendant was responsible

"THE C. & D. always to hand regularly, and still as acceptable and interesting as of old," writes a Shanghai subscriber (212/28) on August 1, 1915.

# Limited Companies.

#### New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

GILLETTE SAFETY RAZOR, LTD. (P.C.).—Capital 6,0001. The

Grizzi II. Sheri M. Azok, I.B. (17.5.).—Calified 0,0007. The first directors are C. A. Gaines, H. C. Wallis, and F. Murray. Solicitor, J. Storey, 5 Granby Street, Leicester. British Oil Products Co., Ltd. (P.C.).—Registered in Edinburgh on July 30, with a capital of 6,0007. in 17. shares. Objects: To carry on the business of refiners, manufacturers, and producers of and dealers in oils, petroleum, naphtha, paraffin, tar, soap, sheep-dip and by-

ASHFIELD CHEMICAL Co., Ltd. (P.C.).—Capital 500t. Objects: To carry on the business of manufacturing chemists and druggists, etc. The subscribers are J. H. H. Wentworth-Rhodes, civil engineer and surveyor, Leeds, and J. H. B. Watson, manufacturing chemist, Leeds. R.O., Ashfieldworks, Lower Wortley Road, Leeds.

Solvol, Ltd. (P.C.).—Capital 900t., in 1t. shares. Objects: To carry on the business of chemists, druggists, drystates and appearance of the state of the state

jects: To carry on the business of chemists, druggists, drysalters, oil and colour men, importers and manufacturers of and dealers in disinfectants, soluble oils and hydrocarbons, chemical, industrial, and other preparations, etc. R.O., 12 Queen Street, London, E.C.

ALEXANDRIA PRODUCE AND EXPORT Co., LTD. (P.C.). Capital 15,000%, in 1% shares. Objects: To take over the business of Egyptian produce exporters formerly carried on by Elie J. Constantinides & Co., of Alexandria, Egypt, and to carry on the said business, narticularly in reference.

and to earry on the said business, particularly in reference

and to earry on the said business, particularly in reference to cottonseed, oil-cake, and cotton oil. R.O., 1 Craig's Court, Charing Cross, London, S.W.

Bradley & Bourdas (Belgrave Road), Ltd. (P.C.).—
Capital 1,000%. Objects: To take over a lease of 48 Belgrave Road, Westminster, London, where the business of a chemist and druggist is carried on as Bradley & Bourdas, the adoption agreement with L. Rouydas, june, and to carry to adopt an agreement with I. Bourdas, junr., and to carry on the business of chemists and druggists, drysalters, perfumers, etc. The first directors are I. Bourdas, junr. (managing director), and L. H. Taylor. R.O., as above.

#### Company News.

AYRTON, SAUNDERS & Co., Ltd., posted on August 30 their half-yearly preference-dividend warrants.

# Wills.

DR. G. PATON CRARER, The Bracs, Turriff, who died on February 14, left personal estate in the United Kingdom valued at 3,489/.

MR. THOMAS HENRY ROBINSON, Fireroft, King's Avenue, Clapham Park, London, S.W., largely interested in the Nugget Polish Co., Ltd., left estate of the gross value of

Mr. David James Owen, chemist and druggist, Frondeg, Llansamlet, near Swansea, who died on May 5, left estate of the gross value of 2,063*l*. 19*s*. 2*d*., of which 1.493*l*. 18*s*. 5*d*. is net personalty. The testator left his estate upon trust for his wife, Mrs. Ellen Owen, for life, with remainder to his daughter Ethel Marion, or, in the event of her predecease, then to his wife absolutely.

Mr. Lacey Andrew Vincent, chemist and druggist, Wayland House. Watton, Norfolk, who died on June 6, left estate valued at 4.816*l*. 17*s*. 5*d*. gross, with net personalty 1,425*l*. 2*s*. 7*d*. Probate of his will has been granted to his son Mr. L. M. Vincent, chemist's manager; Mr. B. W. Blomfield, veterinary surgeon; and Mr. Percy Vincent, 69 Paynders Road, Clapham Park, London, S.W., draper, Mr. David James Owen, chemist and druggist, Frondeg,

69 Paynders Road, Clapham Park, London, S.W., draper,

son of the deceased.

son of the deceased.

Mr. Charles Jones, Ph.C., 53 Mill Lane, Churchtown, Southport, who died on August 3, left estate of the gross value of 24,694/. 4s. 2d., of which 22.879/. 16s. 2d. is not personalty. Probate of his will has been granted to his brother, Mr. Frank Jones, Ph.C., 8 Sunningdale Road, New Brighton, and Mr. H. T. S. Clayton Ashton-under-Lyne. The testator left 1,000/. to his friend and former apprentice, Charles Robert Dixon: 500/. to his assistant, Walter Baron: 500/. each to William Knott and his wife, "for her kindness and hospitality"; 100/. to Annie Lewis, "for her willingness at all times to sing at my request": 200/. each to his cousins George and Herbert Jones and Thomas and David Mellor: and the residue of his estate he left upon trust for his brother Frank Jones and his sister Martha Jones during their lives and the life of the survivor, and, on the death of the survivor, upon trust for his nephew, Harold Jones, and his issue. Harold Jones, and his issue.

## Births.

Authenticated notices are inserted without charge.

CLEWORTH.-At 37 Ducie Street, Manchester, S.W., on August 27, the wife of John Cleworth, pharmacist-photographer, of a daughter.

DUNCAN.—At 6 Kirk Square, Arbroath, on August 30, the wife of Howat Duncan, chemist and druggist, of a son.

DUNLOP.—At 123 Lower Baggot Street, Dublin, the wife of C. J. B. Dunlop, Ph.C., of a daughter, which survived only a few hours.

HANBURY.—At Foxbury, Woldingham, Surrey, on August 31, the wife of Reginald Janson Hanbury, M.R.C.S., L.R.C.P. (Allen & Hanburys, Ltd.), of a son.

HARPER.—At Dalkey, co. Dublin, on August 17, the wife of James Harper, Ph.C., of a son.

Walls.—At Somerset Strand Cape Province, S.A., on August 9, the wife of John Walls, chemist and druggist, of a daughter.

Marriages.

Authenticated notices are inserted without charge.

Epps-Du Bled.-In Paris, on August 30, Ralph Septimus Gladstone Epps, youngest son of Mr. Hahnemann Epps, 95 Upper Tulse Hill, S.W., to Marguerite Fanny, youngest daughter of Monsieur Emile Du Bled, 53 Rue Claude Bernard, Paris.

FARQUIAR—SOUTER.—At the Royal Hotel, Aberdeen, by the Rev. A. S. Kydd, M.A., United Free Church, Insch. on August 26, John M. Farquhar, Newcastle-on-Tyne, third son of Mr. Robert F. Farquhar, chemist and druggist, Insch, Aberdeenshire, to Elizabeth Craig, eldest daughter of Mr. E. C. Souter, Bogie Bank, Rhynie, Aberdeenshire.

PAGE—WICKES.—At St. Stephen's Church, Canonbury, London, N., on August 26, Ernest George, only surviving son of Mr. R. S. Page, chemist and druggist, 186 Essex Road, Islington, N., to Jessic Mary, only daughter of Mr. C. Wicker Dead London, Page 11, 1975. Wickes, Downham Road, London, N.

PALFREY—TAYLOR.—At the Carlton Hotel, Edinburgh, by the Rev. Henry Arnott, West U.F. Church, Alva, on August 28, Thomas Alexander Palfrey, chemist and druggist, Alva, to Janet Keddie Taylor, younger daughter of the late David Taylor and Mrs. Taylor, Ardenlea, Alva.

THOMPSON—HILTON.—At the Farnworth Congregational Church, on September 1, John William Thompson, pharmacist, Little Hulton and Farnworth, Lanes, to Mary, second daughter of Mr. and Mrs. T. Hilton, of Kearsley.

#### Silver Wedding.

MILLARD—Scorey.—On September 1, 1890, at Chatsworth Road Chapel, West Norwood, by the father of the bride, Edgar James Millard, son of the late Rev. J. H. Millard, B.A., formerly of Huntingdon and Derby, to Charlotte Mary, only daughter of the Rev. P. G. Scorey, of East Dulwich. Present address, "Oakleigh," Stapleton Hall Road, N. [Mr. Millard is now managing director of C. J. Hewlett & Son, Ltd., Charlotte Street, London, E.C.]

# Deaths.

Authenticated notices are inserted without charge.

COLMAN.-On August 28, Mr. William Colman, ehemist and druggist, 322 Ashton New Road, Bradford, Manchester, aged fifty-one.

CROOKES.—At 109 Ladbroke Grove, CROOKES.—At 109 Ladbroke Grove, London, w., on August 28, Mr. Henry Crookes, A.R.S.M., F.C.S.. aged fifty-six. Mr. Crookes was the eldest son of Sir William Crookes, O.M., President of the Royal Society, and was associated with his father and Sir James Dewar, F.R.S., in London their private analytical and experimental laboratory. conjunction with them he prosecuted the research on colloidal metals the outcome of which was the discovery and marketing of the remedial solutions known as Collosols.

Cross.—At Woodlands Road, Redhill, on August 31, Mr. John Cross, chemist and druggist, aged sixty-one. Mr. Cross had been in business in Redhill twenty-four years, beginning in Garlands Road, and eighteen months later adding a branch in High Street. He was previously in business in Reading for some years, and, though not consected with the pharmacy there since he went to Redhill. nected with the pharmacy there since he went to Redhill, it is still carried on under his name. His health had been failing for some time, but he was able to attend to business till four weeks ago. He is survived by a widow and a grown-up family.

Baiss, director of Baiss Bros. & Stevenson, Ltd., Grange

Road, Bermondsey, S.E., aged sixty-seven. The death of Mr. Baiss, after an illness of about The three months, has removed one of the most highly esteemed among the senior members of the Metropolitan wholesale drug-trade. He was a man of singularly attractive personality; his distinguished appearance, erect stalwart figure, rare charm of manner, and native tact winning for him wide circles business and social of friends, who will miss him as we miss a light that has gono out, as also will many who had experienced the spontaniety of his generous nature. Up to a few months previous to his



MR. ARNOLD BAISS.

death Mr. Baiss took an active interest in the Bermondsey death Mr. Bass took an active interest in the death Mr. Bass took an active interest in the business, and for many years ho had attended 'Chango regularly and the periodical drug sales. Ho was President of the Drug Club in 1904-1905, his father (William Arnold Baiss) and his uncle (James Baiss) having become members of the Club in 1838. Mr. Arnold Baiss is survived by a family of four sons and one daughter, two of his sons. Walter Arnold Baiss and Harold Baiss, being engaged in the business. The functal took place on Saturday, August 23, at Llanychan Church, Denbighshire. The firm was founded previous to 1833, in which year W. Arnold Baiss primus was a member of the firm of Drew, Hayward & Baiss, 21 Great Trinity Lane, E.C., after which it became Drew, Hayward & Barron, then Drew, Barron & Co. The business was afterwards removed to Jewry Street, E.C., where it was known as Baiss Bros. & Co., and in 1839 it was amalgamated with H. E. Stevenson & Co., of Southwark Street, S.E., the partners in the concern being Arnold Baiss, Sydney Baiss, and H. E. Stevenson. In the following year the partnership was converted into a limited com-pany under the present style with a capital of 100,000. In 1912 Mr. Stevenson resigned his directorship and commenced business on his own account at 122 Great Suffolk Street, S.E. At that time Mr. Arthur J. Puddy joined the board as one of the managing directors. In 1910 the City premises were given up and the business concentrated at Grange Road, Bermondsey, where additional premises have just been acquired.

FIELD.—At the Royal Hotel, Harrogate, on August 25, Mr. Charles Wheeler Field, of Woodleigh, Mount Pleasant Road, Liscard, governing director of C. W. Field, Ltd., distillers of essential oils and flavouring-essences, manufactured of the control Harding chemists and drug-grinders, Cambrian Mills. Wood Street, Liverpool, aged sixty-two. Mr. Field passed away after a long illness. The funeral took place on away after a long illness. The funeral took place on August 19 at St. James's Cemetery, Liverpool, and was attended by representatives of the office and outdoor staffs of C. W. Field, Ltd., Dr. Charles Symes, and other representatives of the land outdoor staffs. sentatives of the business community in Liverpool.

Keall .- At 241 Elgin Avenue, Maida Vale, London, W.,

on August 21, Mr. Holmes Keall, chemist and druggist, aged seventy. Mr. Keall was the son of John Keall, M.R.C.V.S., West Butterwick, and was apprenticed in 1860 to Richard Collitt, Gains borough. He afterwards acted assistant with Charles as assistant with Charles Hobson, Beverley; Atkinson, Pickering, Hull; W. E. Crass-weller, Bury St. Edmunds; and Butler & Crispe, Cheap-Mr. Keall passed the side. Modified examination in 1869, and in 1873 purehased the business (established in 1865) of Walter Paterson Carr (of Berwick-on-Tweed) at 19 Elgin Road, Maida Vale, and three years later moved to premises



years fater hoved to premises
two doors away, where he
earried on business up till
the time of his illness in June which ended in
paralysis. He was a Wesleyan Methodist and a
local preacher of fifty years' standing, and had been sub-

postmaster of Maida Hill, Elgin Avenue, T.S.O., for fortyfive years. A memorial service was held at Paddington Wesleyan Church on August 25, and among those who attended to pay a last tribute to an old friend were Mr. G. J. Knight and Mr. W. Burge. Mr. Keall leaves two sons and a daughter. One son is the Rev. Holmes Keall, a Wesleyan minister at Buckfastleigh, South Devonshire, and the other, Mr. John Keall, is the well-known South London phaymenist. London pharmacist, who was recently elected a councillor of the Pharmaceutical Society.

FOUNTAIN.—At Woodbridge Road, Ipswieh, on August 22, Mr. Robert Fountain, aged fifty-eight. Mr. Fountain was employed for forty years in the pharmacy department of Grimwade, Ridley & Co., Princes Street, Ipswich.

HAROLD.—At 88 Marina, St. Leonards-on-Sea, on August 22, Mr. William Henry Harold, chemist and drug-

gist, aged seventy-six.

HAYES.—Suddenly, at King's Lynn, recently, Mr. James Roberts Hayes, chemist and druggist, late of 115 Norfolk Street, King's Lynn, aged sixty. Mr. Hayes had retired from business on account of his health, and was succeeded by his second son, Mr. James R. Hayes, chemist and drug-

Lyon.—At Carleton Close, Pontefract, on August 27, Mr. John George Lyon, F.I.C., F.C.S., J.P., chemical manufacturer, aged seventy-three.

MILNE.—Suddenly, at 71 Charles Street, Newark, on August 28, Mr. Alexander Morrison Milne, chemist and druggist, late of Aberdeen.

MONTGOMERY.—At "Frecati," Blackrock, eo. Dublin, recently, Mr. Thomas Montgomery, Ph.C., 76 Dame Street, Dublin. Mr. Montgomery was registered as a Licentiate of the Pharmaceutical Society of Ireland in 1907. Death took place suddenly.

Killed in Action.

ROBINSON.—Killed in action at the Dardanelles, Captain R. W. Robinson, Royal Inniskilling Fusiliers, third son of Mr. R. A. Robinson, ex-President of the Pharmaceutical Society and formerly Chairman of the London County Council. Captain Robinson was for some years in the London Scottish, and served in the South African War, afterwards becoming a lieutenant in the Rhodesian Volunteers. On the outbook of war he icined the regiment with teers. On the outbreak of war he joined the regiment with which he was serving when killed. His brother, Mr. R. A. Robinson, Ph.C. and barrister-at-law, is also serving with the Colours.

Died on Service.

Conway.—On July 15, Private J. P. Conway, chemist's assistant, 43 Lyndhurst Road, Burnley. Private Conway's relatives have been informed, through the Records Office at Preston, that the cause of death was drowning.

George Frost, 11th Battalion Manchester Regiment. Lance-Corporal Frost met his death



LANCE-CORPORAL FROST.

in the performance of a brave and noble act. A party of soldiers were bathing "some-where" in the vicinity of the Dardanches when three them got beyond their depth and were in imminent danger of being drowned. Lance-Corporal Frost went to their assistance and succeeded in saving two of them, but while bringing the third ashore he was suddenly seized with eramp, and, along with the third man, was drowned. Ho was a powerfully built, muscuall his lar man and devoted spare time while in Manchesto athletics, holding a ter local championship for heavy-

weight lifting. He was very well known to chemists in Manchester, as he was at one time in business as a druggists' Street. Some years ago, however, he joined the firm of John Quilliam & Co., Canterbury-works, Victoria Bridge, Manchester, with whom he was employed till a few months ago, when he joined the 11th Battalion Manchester Regiment ment.

A COMPARISON of the present and former labels in use among some wholesalers shows a marked tendency in favour of simple and clear lettering, the modern label being light in type, severe in style, and denoting the higher standard of commercial taste, of which pharmacists have long been pioncers.

# Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

A Delicate Reaction for Apomorphine.—According to Grimbert and Leclère ("Ann. Chim. Anal.," 1915, 3, 61), 1 part of apomorphine in 500,000 can be detected by the following reaction: To 5 c.c. of the solution containing the apomorphine 5 drops of a saturated solution of mercuric ehloride is added, and then 5 drops of a 10-per-cent. solution of sodium acctate. The mixture is beided for a few minutes. On cooling, 1 to 2 c.c. of anyl alcohol is added, which on shaking is coloured blue if apomorphine be present. be present.

Tormentol.-Goris and Vischniac ("L'Union Pharmaeeutique," 1915, 2, 53), in a paper read before the Academy of Sciences in Paris, describe a new substance extracted from the roots of *Potentilla Tormentilla*, which they have named termentel. This body forms fine crystalline needles, named formentor. This body forms making at 2270-2280. It is a saturated, neutral compound, free from nitrogen. It contains free hydroxyl groups, and has therefore an alcoholic nature, but contains no ketonio or aldehydic groups. Its formula is  $(^3_{33}II_{50}O_{10}+5II_{2}O$ . It is optically active, its specific rotation in 90-per-cent. alcohol being +10.78°.

Improved Hæmin Test for Blood.-Bulletin No. of the Chemical Section of the Wellcome Tropical Research Laboratories, Khartoum, by William Beam and Gilbert Arthur Freak, deals with an improved method of applying Arthur Freak, deals with an improved method of applying the hæmin test for blood, with notes on some recently proposed methods. The authors have devised a method by which good crystals are obtained, which are visible under a magnification of only 25 diameters. The method adopted is to evaporate the acid solution on a delicate cotton thread in contact with the side of a small tube. Upwards of 300 trials have been made by the authors, using this method, and in no single case did the crystals fail to support method, and in no single case did the crystals fail to appear.

Camphor Oil in Oil of Turpentine. - To detect light Camphor Oil in Oil of Turpentine. To detect light camphor oil in oil of turpentine and to distinguish it from pine oil, E. Coen ("Ann. Chim. Appl.," 1915, 3, 372, through "J.S.C.I." 1915, 34, p. 841) proposes testing for safrol, which is a constituent of camphor oil, as follows: 100 c.c. of the sample is distilled, and the last 5 c.c. of distillate is treated with an equal volume of concentrated sulphuric acid, added drop by drop, and cooling after each addition. The liquid is then added to 20 c.c. of water and extracted with 10 c.c. of amyl alcohol. On treating the alcoholic layer with 5 c.c. of solution of potassium carbonate (20 per cent.), a green or bluish coloration, changing to red on cent.), a green or bluish coloration, changing to red on addition of sulphuric acid, is produced in presence of safrol.

Constituents of Kembe Strophanthus.—D. II. Brauns and O. E. Closson ("Chem. Zeit.," 1915, 39, Rep., 131, through "J.S.C.I.," 1915, 34, 12. p. 680) have examined genuine Kombé strophanthus-seeds, which they find to contain a crystalline glucoside strophanthin, C<sub>40</sub>H<sub>56</sub>O<sub>15,3</sub>H<sub>2</sub>O, and a closely related amorphous strophanthin of probably double the molecular weight. Crystalline strophanthin is converted by water into an appearance more strophanthin is converted by water into an amorphous monostrophanthin is converted by water into an amorphous monosus acid derivative which is hydrolysed to strophanthidin,  $C_{27}H_{38}O_{7}, H_{2}O$ , m.p. 169-170°, by dilute acids. Amorphous strophanthin is also hydrolysed into the same compound by dilute acids. The crystalline strophanthin does not contain a pentose or a rhannose, but yields a disaccharide and methyl alcohol on hydrolysis by acids. The amorphous strophanthin, however, appears to contain a pentose.

strophanthin, however, appears to contain a pentose.

Commercial Chrysarobin.—R. Eder ("Arch. Pharm.." 1915, 253, 1-33, through "J.S.C.I.," 1915, 34, 12, p. 681) finds that commercial chrysarobin after oxidation by air in alkaline solution consists of about 26 per cent. of amorphous dark violet and brownish-red products, 18 per cent of debudge-amodinanthrand monomathyl chap. 2 per cent. of debudge-amodinanthrand monomathyl chap. amorphous dark violet and brownish-red products, 16 per cent, of dehydro-emodinanthranol monomethyl ether, 2 per cent, of emolin, and 32 per cent, of a mixture of 71 per cent, of elirysophanie acid and 29 per cent, of emodin monomethyl ether. Dehydro-emodinanthranol monomethyl ether is present in the original chrysarobin, which also contains crysophanie acid, emodin-monomethyl ether, and emodin either wholly or partly in a reduced form. The presence of dishurearobin methyl ether mentioned by Lowett and Petter. dichrysarobin methyl ether mentioned by Jowett and Potter ("Trans. Chem. Soe.," 1902, 81, 1,577) is considered improbable.

THE "New York Commercial" reports that the exports The "New York Commercial" reports that the exports of dextrin or corn-starch, of glucose or corn-styrup, and of corn oil are very heavy. These exports are principally going to Seandinavian countries, and are popularly believed to be finding their way into Germany, where they are in large demand. The food-values of corn-starch and corn-syrup are greatly appreciated in Germany under present conditions. The refined corn oil is adiable and a substitute for ditions. The refined corn oil is edible and a substitute for olive oil, which Germany cannot get.

# Trade Notes.

SAFETY-RAZOR BLADES.—William P. Kelland, 36 Camomile Street, London, E.C., undertakes the sharpening of these blades at low prices, for which see his advertisement in this

Anzora Hair-Cream is the kind that has helped to ereate a characteristic of the present-day." Knut "—well-kept hair—for under the roughest possible conditions Anzora does that. It is at present being extensively advertised.

VINCENT WOOD, 91 and 93 Newington Causeway, London, S.E., gives a timely hint to retailers of hot-water bottles, chest-protectors, and other winter wants—namely, to order now as there is likely to be a great shortage of material.

COUGHS are beginning now and turn public thoughts to such remedies as Owbridge's Lung-tonie, the makers of which, W. T. Owbridge, Ltd., The Laboratory, Hull, advise retailers to buy in anticipation of autumn and winter trade.

NI-VERRE HAIR SHAMPOO usually costs 7s. per gross, but the manufacturers, the Ni-Verre Chemical Co., 5 to 7 Ormean Avenue, Belfast, are allowing 4s. 6d. per gross discount to retailers who buy a gross and agree to display the advertisement for the article.

THROAT-BRUSHES are much wanted at present, the Conti-

The Digestive Ferments Co., 16-26 Locust Street, Detroit, U.S.A., insert in the advertisement section of this issue lists of the digestive ferments and animal therapeutic sub-

Ists of the digestive ferments and animal therapeutic substances manufactured by them and stocked by their British agents, May & Baker, Ltd., Battersea, London. S.W.

In the advertisement in the C. & D., August 28, p. 7, of the new scale of prices for extract of malt and its combinations prepared by Davies, Sons & Co., manufacturing chemists, Derby, their address was given inaccurately as "The Bridge House," instead of Bridge Street, Derby, England. Will buyers please note?

Must Express manufactured by Caldars Verst Co. Ltd.

MALT EXTRACT is manufactured by Calders Yeast Co., Ltd., 1 Peckham Grove, London, S.E., and put up ready for retailing in hermetically sealed bottles, the caps of which are antiseptic. The company also manufacture malt with cod-liver oil, and give quotations in this issue along with

the addresses of their London offices and branches.

PLASMON PRODUCTS ARE BRITISH PRODUCTS, and two of them, which are bound to be still more in demand as the necessity for dietetic economies become more appreciated by the British public, are Plasmon Cocoa and Plasmon Oat-cocoa. Plasmon, Ltd., 66A Farringdon Street, London. E.C., invite the co-operation of retailers in the supply of these to the public.

THE EVANS PRICE-LISTS OF DRUGS and all other things connected with pharmacy and the drug-trade are printed in several languages besides English, perhaps the most conspicuous of these being the Spanish list. Copies of the lists may be obtained on application to Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, or Bartholomew Close, London.

CHELTENHAM NATURAL APERIENT WATER is one of the war's successes, and the Cheltenham Natural Water Co., Priory Court, Cheltenham Spa, who bottle this natural British product, point out that chemists who sell the water combine patriotism, pleasure, and profit together. The water retails at 1s. per bottle, and is obtainable from the company or from Ingram & Royle, Ltd., or May, Roberts & Co., Ltd.
"Wellcome" Advertising has always been characterised

by its originality, and rarely seems more original than when it embedies in a new way some familiar object. This when it embodies in a new way some familiar object. This reflection will be shared by C. d. D, subscribers when they see that "The Dispensing Department" is the subject this week of Burroughs Wellcome & Co.'s advertisement, their

"The Pharmacy Cazette" for August, being the organ of the Incorporated Society of Pharmacy and Drug-store Proprietors of Great Britain, has been sent to us by the Secretary, Mr. Norman D. Vine, Pearl Chambers, East Parade, Leeds. Among the contents are a critical article on the Pharmaceutical Society's enforcement of the proon the Pharmaeeutical Society's enforcement of the provisions of the Poisons and Pharmaey Acts as regards the sale of Izal by unqualified persons, and a report of the fourth annual meeting of the Society held at Manchester on May 12, when Mr. W. Huntrods (the President) and Mr. James O'Grady, M.P., addressed the meeting and various reports were submitted and adopted. The other contents included pungent remarks on Mr. W. S. Glyn-Jones, M.P., and the "Trade Press," under which phrase the "P. G." tries to hide the C, & D. The publication is a quarterly and costs of costs 5d.

A TREASURY NOTE CASE that chemists can sell is manufactured by D. Harper & Co., Ltd., 258 262 Holloway Road, London, N. It is constructed on a principle with which our readers are no doubt familiar-namely, two folding our readers are no doubt familiar—namely, two folding book-boards connected with silk tapes. The note is put flat in the book, which is then shut and the reverse side opened again quickly, when the note is found to be secured by the tapes. Messrs. Harper make the cases in six qualities, retailing at from 1s. to 10s. 6d. each, with 33½ per cent. trade discount. It is a novelty which chemists may stock and sell to advantage, and, like all novelties, now is the time to sell it.

Hypochlorite Solution.—We print in this issue a synopsis of Dr. H. D. Dakin's observations on the use of hypochlorite solution as an antiseptie wound dressing. While that synopsis was being prepared we had a request from a West-end pharmacist for particulars in regard to the solution which he had in vain tried to obtain from his usual channels of wholesale supply. One firm actually told him it would take three weeks to make! No donbt the firm was unaware of recent publications on the subject. On Tuesday W. Martindale. 10 New Cavendish Street, London, W., sent to us a sample of the solution prepared according to Dr. Dakin's formula, which is supplied at 1s. 6d. per 40-oz. quart bottle and 2s. 6d. per Winehester, in both cases stoppered, carriage forward. There is to be a big demand for this solution, as apart from hospital and big demand for this solution, as apart from hospital and war uses it is likely to become a popular disinfectant. The mention of this source of supply is therefore opportune.

SYNTHETICS AND PHENOL.—Monsanta Chemical-works, St. Louis, Mo., U.S.A., have as chemical manufacturers been Louis. Mo., U.S.A., have as chemical manufacturers been conspicuous since the war in supplying products which this country, in common with others in the world, had relied upon Germany to supply. Glycero-phosphates and synthetic products are their leading lines. They manufacture, e.g., phenacetin, phenolthalein, and saccharin, but experience difficulty in getting from this country the principal raw material—phenol. The exportation of this is, of course, only permitted in exceptional cases, for we need nearly all that we produce for making explosives, without which only permitted in exceptional cases, for we need nearly all that we produce for making explosives, without which victory cannot come to the Allies. We are pleased to learn from the Monsanto Chemical-works that steps are being taken in the United States to manufacture phenol there, and to this we might add that the Government has under suitable guarantees permitted phenol to be sent to Switzerland on condition that it is returned to this country in land on condition that it is returned to this country in medicinal form, such as salicylic acid. Could not this be done for U.S.A. also in such cases as this? The initiation lies with buyers herc.



Postal Address

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C. Telegraphic Address: "CHEMICUS, CANNON, LONDON" (two words). Telephone Number: 3617 CENTRAL (three lines).

#### INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

212/45, "Maxem" anti-vermin 211/1

milk tablets, etc.

".Easeer belt, actual makers.
209 24. "It" (eanteen in a nutshell), containing ten, sugar and milk, coffee and wilk teakers.

211 T. Easeer for exterminating flies.
209 51. Small still for distilling perfumed flowers, barks, etc.
208 65. "Le Cyrano" toothpick, makers.

#### INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.:

Boxwood-topped corks, 188/18 Brooks' trusses, 187/71 Buchanan's charcoal re-burners,

maehinery (French makers), 197/13 "Lacto-peptine," 180/49

Laxative fruit tablets, 197/73 Non-inflammable celluloid substitute, 135/63
"Nyal" remedies, 198/69
"Omega" oil, 195/1
Tooth's Extract of Meat Co.; address 129/14

address, 179/14

# Observations and Reflections. By Xrayser II.

The Optimistic Apologia

of the War Trade Department rolls out the excuses for the delays in granting permits in fine style, but unfortunately the trouble remains. showed the letter to a friend who has a good deal to do with the Department, and I fear that the language he used would have made a heathen stare. The Department has now had a few weeks' experience, but the opinion seems to be that the delays and discouragements suffered by exporters are as bad as they were before it was formed. What appears to be wanted is the association with the Department of half-a-dozen or a dozen business men who know their business, and who are in a position to say offhand in the majority of cases whether any given permit should be allowed. At present this is not the case. So far as the drug-trade is concerned, one end of the Department is in fine shape—namely, that managed by the Insurance Commissioners—but between them and the War Trade Department there is a serious hiatus which ought to be filled up by the appointment of a practical pharmacist, preferably with knowledge of wholesale buying and selling. Such a man could almost decide on permits automatically as they came before him and thus prevent the friction and delays that arise.

The "Daily Mail"

(according to the paragraph in your issue of last week) has elicited from the Insurance Commissioners a statement so amazing that we are almost driven to suspect a misunderstanding on the part of its representative. It is to the effect that the official Tariff was never intended to give us a right to the charges it sanctions, but only as a means of comparing the work of one chemist with that of another, and to furnish a basis for the division of the Drug Fund. If these are to be understood as two distinct objects the intricacy of the Tariff is partly explained; we must suppose that for some reason or other the Commissioners wish to compare our proficiency in arithmetic, but otherwise one does not see why such minute care should have been spent on the preparation of the Tariff. As a basis for the division of a fixed sum one Tariff is as good as another; any Tariff would serve equally well to show what share of the money each man should receive; whether we reckon in pence or in shillings, in fractions or whole numbers, the proportion is the same. It may be true that we have contracted to receive only a share and not the whole amount earned (the more fools we!), but to tell us that the Tariff over which we have fought and puzzled so long represents only so much wasted time and labour is to add insult to injury. It ought to be also another nail in the coffin of the discounting clause; it certainly justifies all I have ever said of the folly of disputes over the Tariff while that clause is in operation.

#### The Death of Ehrlich

removes one of the most famous names from the roll of scientific Germans, and medical science, not only in Germany, but all over the world, is the poorer. Ehrlich was an original thinker and a born experimenter, and great credit is due to him for the way in which he worked up to the very front rank in Germany in spite of the social disability arising from the fact that he was a Jew. In addition to his own originality he was exceptionally fortunate in procuring as associates men of keen and daring intellect and assiduous diligence, the result being a more than usually rapid rise to fame. honours heaped upon him were no doubt well deserved, but somehow one cannot help thinking that his associates are placed in the shade. Your short notice contains three instances where credit is given entirely to Ehrlich which certainly did not properly belong to him. You speak of him as the discoverer of salvarsan, but omit to say that all through in this work he was associated with Hata, a very brilliant Japanese scientist. The term Ehrlich-Hata "606" is still familiar, but it is not generally known that "606" was first tested on human patients in the

Tokio Imperial Bacteriological Institute. The discovery of a method of testing diphtheria antitoxin was really due to Behring, all that Ehrlich did being to suggest a different value for the antitoxin unit, the method of testing remaining essentially the same; in fact, the modified unit has all along been regarded as the Ehrlich-Behring unit.

The Methods of Promoting German Trade

described by your correspondent are only too well known by firms on this side of the North Sea who have had occasion to engage German clerks and correspondents who wished "to learn the English language." Indeed, I shall be surprised if any trader who has been in the habit of employing cheap German labour of this kind has not found that he has nourished in his bosom a viper that stung him. I know of three cases where Germans were given positions here, then stayed a few years till they had sucked the business brains dry, and after leaving blossomed out as the "representatives" of German houses. More than one of these worthy Germans is now in one or other of the internment camps. Have we learned our lesson? I sincerely hope so, and that we have all vowed that never more shall we place any German in the position of learning the secrets of our businesses. To make this possible, however, we as a nation must insist on the teaching of languages much more thoroughly than we have done in the past.

Your Comparative Tables

of stock mixtures from local Pharmacopæias throw a valuable light on the variations which obtain among the formulæ in use in different parts of the eountry, and show the desirability of an authoritative Formulary for use everywhere. A few examples of the more important variations may be cited in evidence. The proportion of liq. strychinin. in mist. ferri et strychnin. varies from 3m. in the ounce to 5m. in the half-ounce; that of liq. hydrarg, in mist, hydrarg, et potass, iodid., from 60m, in the ounce to 60m, in the half-ounce; that of quinine in mist, quinin, from 1 gr. in the ounce to 3 gr. in the half-ounce. When two districts with different Pharmacopæias showing variations like these overlap it is easy for mistakes to happen, and they are not unlikely to occur when assistants accustomed to one Formulary remove to another district in which a different one is in use. Prescribers, too, who move from place to place make mistakes. There can be no sufficient reason alleged for allowing divergences thus calculated to cause error; the very same arguments which make for a British Pharmacopæia for general practice hold good as regards Insurance work.

#### The Spt, Æther, Nit. Problem

is a very old one-so ancient, indeed, that not even the "oldest inhabitant" a time when it was not with us. It has been settled over and over again, and we all thought that the ghost was laid years ago. But the rising generations are not always satisfied with accepting the decisions of the past, and what is more significant, they often neglect to make themselves familiar with what previous workers have done, and hence they propound lines of investigation for themselves or others which are really unnecessary, and which lead to a waste-of useful energy. Professor Marshall and Miss Gilehrist speak of the "rapid loss of ethyl nitrite which follows the addition of water," a fact that has often been verified in the past. We know that changes rapidly take place whose carting malicipation and the selection of take place when certain medicaments are mixed with ordinary unsterilised distilled water, which do not occur with sterile water. Infusion of digitalis is a case in point, sterile infusions remaining good for a long time. and we also know that digitalis aqueous mixtures rapidly lose their therapeutic properties. Fraser showed many years ago that tincture of strophanthus taken in drops is much more active than an aqueous strophanthus mixture, but the reason for this remained obscure till it was demonstrated a few years ago that if the tincture of strophanthus is diluted with sterile water and kept sterile, the mixture maintains its full pharmacological and therapeutic strength.



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# GRIMBLE'S

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# Editorial Articles.

Medical Service.

In spite of the unprecedented call upon the medical men of this country to serve in connection with the war the home sick and suffering are doing fairly well, but here and there occasional cases of desperation through lack of medical attendance are experienced. At present the profession promises to be one of the best for girls as well as boys; but that is a consideration for the future, the immediate want being men for the Front and, maybe, women for home practice. We observe that the British Hospitals' Association has had under consideration the shortage of resident medical officers of hospitals, and the Chairman and some members of the Executive Committee recently had an interview with Surgeon-General Sir Alfred Keogh, Director-General of the Army Medical Service, on the subject. Sir Alfred, after hearing the views of the deputation, and expressing appreciation of the valuable services rendered by the voluntary hospitals, and his sympathy with their difficulty in obtaining resident medical officers, pointed out that the medical needs of the Army and Navy must necessarily be paramount at the present time. He agreed to extend the arrangements under which the resident staffs of hospitals are granted honorary commissions in the Royal Army Medical Corps to all hospitals connected with medical schools, but regretted it is not practicable to extend the operation of the scheme to other hospitals, where there are depleted medical staffs. There is a similar shortage of doctors in Australia, but still a great desire among students to serve in the war, so the Universities of Melbourne and Adelaide have made arrangements allowing their medical students who have joined the Colours to continue their courses at the close of hostilities without losing anything in the matter of time. Medical students of the University of Sydney presented a memorial to the Senate, offering, on behalf of the greater number of fifth-year men, to endeavour to qualify earlier so as to be able to get away to the Front this year, while the whole of the fourth-year students undertook to submit to a more strenuous course of study in order to qualify early next year. Faculty of Medicine unanimously decided that while nothing should be omitted from the regular curriculum

in any subject, the whole of the work might be carried through by concentrating it into a shorter period. In order to do this, the students have expressed willingness to go without the normal vacations, and the teachers are meeting the students halfway. At home large numbers of medical students who joined hospital staffs at the beginning of the war have been returned to their studies, and most educating and examining bodies are expediting their qualification, on the principle of forgoing time but not knowledge or work.

#### Fat-famine in Germany.

We have on many occasions since last October referred to the great scarcity of oils and fats in Germany, the scarcity being due primarily to the fact that now the bulk of the world's output of vegetable fats is consigned to British ports, instead of to Hamburg as was the case before the war. Fats and oils, as the source of glycerin, are as essential to the belligerent Powers as cotton, because the propulsive explosives used by them are a mixture of gun-cotton and nitro-glycerin with adjuvants. In view of this fact, it is somewhat surprising that Sir William Ramsay and those associated with him in the agitation to make cotton contraband of war, did not include fats in their embargo. Nevertheless, cargoes of the latter intended for Germany are stopped by the Allied Fleets. The latest information in regard to the condition in Germany is that the War Committee there, which is dealing with the supply of vegetable and animal oils and fats, has issued instructions for the recovery of fats in kitchens of hotels and private houses, in sausage-factories, abattoirs, and all other places where fat-yielding products are dealt with or obtained. The Committee is even prepared to supply those who can use it with a practical fat-separator on the condition that the users will supply to the Committee the whole of the fat which they obtain. Other internal sources of fixed oils are also being studied, as is reported on p. 41 of this issue. In a recent issue of the "Apotheker Zeitung" the following percentages of fixed oils yielded by the fruits or seeds of the plants mentioned were given:

•					
Brassica eampestris					33-40
Brassica Napus					40
Brassica nigra		(n	naxin	num)	33.8
Brassica rapa					35-40
Camelina sativa					25-34
Cannabis sativa					30-35
Corylus Avellana					50-60
Cucumis sativus		(n	naxin	num)	25
Cueurbita Pepo					34-38
Cydonia vulgaris					14.3-15.3
Fagus sylvatica					25-38
with	out	the sh			45
Helianthus annuus		(n			30
					40-50
Linum usitatissimui					30-40
Papaver somniferun					47-50
Prunus armeniaea					39
Prunus eerasus					25-35
Prunus domestica					31-42
Prunus persiea					44.8
Raphanus Raphanis					30-40
Ribes rubrum					16-18.5
Sinapis alba	• • •	• • •			25-35
Tilia ulmifolia		(n			58
a da t		,		,	

We do not suppose that there is enough of these plants grown in Germany to produce sufficient glycerin-yielding oils for a week's supply of ammunition, or that our contemporary's suggestion is entirely practicable; but the facts are of interest as throwing an unusual sidelight upon Germany's internal conditions. Britain has nothing to complain of in the matter of fat-supplies, for last week we were able to report that in spite of

German submarines 112,271 packages of oils and oilsceds were landed in this country, representing, say, about a quarter of a million hundredweights, besides one lot of 1.200 tons of ground-nuts. Are we downhearted? No! Nevertheless, the present is a time when, according to the teaching of history, everybody should practise economy in all thungs and count waste a crime.

#### Bengal Excise Drugs.

In our issue of February 6 we dealt with the administration of the Excise Department in the provinces of Bihar and Orissa. We have now received a similar report on the working of the Excise in the Presidency of Bengal for 1913-14, certain sections of which are of interest to the drug-trade, these including the control of spirit, hemp drugs (ganja, bhang, charas), opium, and cocaine. During the year there was a total Excise revenue of Rs. 1,53,88,017 (Rs. 15 to the £), being an increase of Rs. 16,28,860 over the figure for the previous year. Taking the population of the Bengal Presidency, according to the census of 1911, to be 45,239,247, the incidence of Excise revenue was 5 annas 5 pies (about  $5\frac{3}{4}d$ .), against 4 annas 10 pies (about 45d.) in the previous year. The receipts increased under every head except charas, beer brewed in India, and cocaine. The largest increase of revenue (Rs. 6,07,559) occurred under the head of ganja, country spirit coming next with an increase of Rs. 5,66,842, followed by opium (Rs. 3,66,763). The yield on locally produced denatured spirit was Rs. 40,233. The consumption of spirit for the manufacture of medicinal preparations and perfumes shows an increase from 31,889 to 50,887 proof gals.; of rectified spirit there was 5,249 l.p. gals, issued to wholesale chemists and druggists at the reduced rate of Rs. 7.13 per gal. l.p., for manufacturing articles in bond. The number of denatured-spirit licences issued during the year was 330, an increase of 18, and the total quantity passed out through the Calcutta and Chittagong Custom-houses was 246,226 gals., against 227,043 gals. in the preceding year. It is of interest to note that

three soap-factories held special licences, as in the previous year, for the use of spirit denatured with woodnaphtha. No supply of such spirit was, however, taken by them during the year under report. Messrs. Smith, Stanistreet & Co. were permitted to use spirit denatured with 5 per cent. of wood-naphtha for manufacturing-purposes only in their laboratory. The permission was granted on the condition that none of the special spirit should leave the laboratory either as such or as a component of the finished products. The total quantity of such spirit taken by them during the year was 100 gals. The abuse of denatured spirit appears to have been checked by the prosecutions in 1912-13. "Eau de Ceylon" was only seized in two cases during the year under report.

As regards hemp drugs, the duty was increased by Rs. 4 a seer (5s. 4d. per 2.2 lb.) at the beginning of the year, and the licence-fees were raised by Rs. 1,80,679, bringing the total taxation to Rs. 28.9 a seer, against Rs. 22.9 in the previous year. Consequently there was a general rise in the retail price of the drug, with a total decrease of 110 maunds (about 9,000 lb.) in the consumption, so that the increased revenue of Rs. 6,07,559 is considered satisfactory. The exports to foreign territories (135 maunds, or 11,070 lb.) have also fallen off. Converted into avoir. lb., they were approximately as follows: London, 2,450 lb.; Mauritius, 2,030 lb.; Trinidad, 2,100 lb.; Demerara, 3,400 lb.; Surinam, 300 lb.; Paramaribo, 100 lb.; French Chandernagore, 390 lb.; and French Gourhati, 240 lb. As no Bengal ganja is offered here, the London exports were probably in transit for the West Indies. Comparing the exports with the previous year, those for Mauritius were 2,132 lb. less, Trinidad

800 lb. less, and London 700 lb. less; on the other hand, Demerara took 600 lb. more. The decreased demand is attributed by exporters partly to the enhancement in the rate of duty, and partly to the fact that they are not allowed to clean the ganja specially for export, with the result that duty and freight are paid on a considerable amount of inert matter. There are fifteen persons licensed as ganja-brokers in the Bengal Presidency, and they have to pay prompt cash for the goods. The cultivation of ganja in Bengal is evidently a profitable business for the natives, owing to the high prices obtained, and 4,394 applications were received for permission to cultivate, against 3,635 in the previous year, but only 2,896 licences were granted. Of cocaine licences, 221 were issued to chemists and druggists, medical practitioners, and dentists. against 238 in 1912-13. The greater part of this decrease is nominal, however, as no separate licences were issued in Calcutta for eucaine and other coca alkaloids, as compared with thirteen in the previous year. It is to be regretted that the illicit traffic in cocaine continues to flourish in Calcutta, notwithstanding the large increase in the number of cases detected, The total quantity seized in Bengal was 85 lb. 1 oz., against 373 lb. 1 oz. in the previous year. The consumption of opium in Bengal continues to grow, the increase being 0.75 per cent., and the revenue increased by 15 per cent. There is to be a general advance in the Excise-duty from April 1, 1915. Altogether the report affords proof that the Excise is efficiently carried out, in spite of many difficulties with which the officials have to contend from smuggling and illicit distillation. Severer penalties are being imposed on the cocaine-traffic during the current year.

Dispensing by Panel Doctors.

Mr. J. Fischer Williams, the barrister who presides on behalf of the National Insurance Commissioners at inquiries, called attention at Cambridge on Monday to the fact that panel doctors who undertake to supply panel patients with medicine are not authorised by the Act or regulations to delegate the dispensing of the medicines to persons who have acted for them or others as dispensers for three years. The point is interesting, and if upheld by the Commissioners it follows that the doctor must do the dispensing nimself, even if he employs a pharmacist to dispense. Mr. Fischer Williams' observation is correct, we think, but the Act and regulations do not mention any dispensing conditions for the doctor to follow. Hence the importance of the observation, for it may be the means of making good an omission.

#### German Atrocities in Belgium.

Referring to the indictment of German atrocities in Belgium which was printed in The Chemist and Druggist (August 7, p. 50), the "Apotheker Zeitung" ingenuously states that the circular of the "Nederlandsche Maatschappij ter Bevordering der Pharmacie" for help for Belgian pharmacists, addressed to colleagues in neutral countries, was drawn up in such a way that it left room for thinking that German troops had committed the plundering and burning of Belgian pharmacies. "Apotheker Zeitung" notes that The Chemist and DRUGGIST gave a commentary on the Netherlands circular which left no room for misunderstanding at all. translation of the C. & D. article is given in our contemporary, and to it is added the following postscript in leaded type:

"We feel no doubt that the Dutch colleagues will oppose most decidedly this slanderous commentary upon their appeal."

The inference to be drawn from the remarks of the "Apotheker Zeitung" is either that the outrages referred to did not take place, or, if they took place, it was not German soldiers who committed the brutalities. We repeat with emphasis that the facts are established without any possibility of doubt, and that the evidence is available to every one outside Germany, and (judging from the fact that the "Apotheker Zeitung" is getting THE CHEMIST AND DRUGGIST somehow) people in Germany can also get reports of the evidence if they like. Germany's outrages on Belgian pharmacists, horrible as they are, are but secondary in the general catalogue of the wrongs that have been done in Belgium by Germans.

Thymol.

The production of this phenol from a jowan-seed oil has not proved to be a complete success in this country so far, and there appears to be no immediate hope of the scarcity being relieved or the market price reduced. The present is an excellent opportunity for manufacturers in India, who profess to have surmounted all the difficulties of thymol-production, to capture the world's markets, at least the British and American. In the latter connection we note that the U.S.A. Commerce Reports for August 9 contain a despatch by Commercial Agent Thomas H. Norton on the very pronounced scarcity of thymol in the American market, and the despatch deals also with the source and manufacture of thymol. In regard to this he says:

The extraction of the essential oil present in the seeds The extraction of the essential on present in the seeds is usually effected in large stills, of a capacity of at least 600 gals. The seeds are introduced in cages or trays, which occupy the interior, and a current of live steam is passed through the still. The oil, carried along by the steam, condenses with it and floats upon the surface of the water of condensation, from which it is drawn off. This water is used repeatedly in the production of steam, in order to void any loss of the small amount of oil held in solution. avoid any toss of the small amount of off field in solution. The yield of oil from 100 lb. of ajowan-seed varies from 3 to 4 lb. Ajowan oil consists of thymol, to the extent of from 40 to 55 per cent., accompanied by cymene, and by a terpene hydrocarbon. A separation from the two hydrocarbons is effected by agitation with a solution of caustic cache in which the threat himself of the standard of the form of its soda, in which the thymol dissolves in the form of its sodium salt. From the alkaline solution the thymol is precipitated by the addition of hydrochloric acid. The precipitated by the addition of hydrochloric acid. The crude thymol is nurified by crystallisation from alcohol or glacial acctic acid. It has also been found practicable to submit the oil to fractional distillation and extract the thymol from the higher-boiling fractions by the application of cold. Pure thymol boils at 230° C. A large amount even can be obtained directly from the oil by exposing to freezing-mixtures. freezing-mixtures.

Dr. Norton adds that "the amount of thymol obtainable by this process from the annual export of ajowan-seeds from India is estimated at 20 long tons." The thymol may be "obtainable," but is not obtained, and the conventional process, given with modifications, is probably one of the reasons for this. Indeed, what American and British would-be makers of thymol want is a few "tips" as to how to turn out nice white crystals like the German product. It may be that the latter was partly synthetic, but a jowan thymol was unquestionably the principal part of the German output.

Explosives Act Annual Report.

The thirty-ninth annual report of the Inspectors of Explosives has been issued this week. It summarises the work of the Inspectors during 1914 in connection with the administration of the Explosives Act, 1875. A modification of the law regarding the compression of acctylene is referred to in the report, a new Order in Council permitting the gas to be compressed to a pressure of 250 inches instead of 100 inches of water before being regarded as an explosive—a concession designed to meet the conditions obtaining in a certain type of

generator which it was felt could be granted without endangering the public. Owing to a temporary shortage of saltpetre, due to the circumstance that the principal deposits of potassium chloride, from which the nitrate is made, are situated in Saxony, the Inspectors decided to regard gunpowder made with Chili saltpetre—i.e., nitrate of soda—as included in the definition of "Gunpowder, ordinarily so called," so as to render it lawful to make this type of gunpowder in factories working under continuing certificate, and thus enable the manufacturers to reserve their stocks of nitrate of potash for Government requirements. The primary intention was to limit the concession to the period of the war, but it was pointed out by more than one powder-maker that as in some cases extensive constructional alterations would be required on account of the hygroscopic character of the mixture, it would be desirable that the manufacture should be allowed to continue for a term of years at least, if not permanently. After full consideration and discussion with the trade it was decided that there is no valid reason against the substitution of the sodium for the potassium salt, whereas the supplies of the former are more plentiful and the resulting powder cheaper, and that in view of these advantages it would be of national benefit to adopt the view permanently that "gunpowder, ordinarily so called," may be made either with nitrate of potassium or nitrate of sodium. The number of accidents in the manufacture of explosives during the year was ninety-two, causing the death of twenty-one persons-a number of fatalities in excess of the average (7.7) for the decade. We note from the report of the chemical advisers that diphenylamine is now being used as a stabiliser of nitro-cellulose powders. Although this renders the heat-test practically of no value, the advantage of the use of diphenylamine is such that the chemical advisers make no objection to its employment. The appendices give lists of authorised explosives, notes on accidents from explosives, etc.

#### Women Dispensers in Military Hospitals.

THE following statement appeared in the "Daily News" on Tuesday:

"The War Office is now engaging women dispensers for the military hospitals. The qualifications required are membership (sic) of the Pharmaceutical Society, or the assistants' diploma (sic) of the Apothecaries' Society. The latter is the qualification usually held by women, who are being engaged only for the duration of the war, in

order to permit of the male assistants being sent abroad.

"The pay is 6s. per day, Sundays included. In certain county districts allowances and rations are given. The hours are from 9 A.M. to 5 P.M.

"The women dispensers have given satisfaction, and the War Office has increased the number employed."

Although there are several obvious errors in the statement, we considered it desirable to learn from the War Office the truth of the matter, and have ascertained that the statement is premature. There is, however, a scheme on foot to replace male members of the staffs of home military hospitals, so far as is practicable, by women, so that some of the personnel of the R.A.M.C. engaged at these hospitals may be available for foreign service. The scheme includes not only dispensers, but also male nurses, clerks, telephone attendants, cooks, and, to some extent, orderlies. The details of the scheme are in the hands of the Joint Committee of the British Red Cross Society and the St. John's Ambulance Association, 83 Pall Mall, London, W., by whom the necessary personnel will be found. It is anticipated that matters will be arranged between the War Office and the Joint Committee in the course of a few days, when the scheme will be put into

operation. On inquiry at the offices of the British Red Cross Society we were informed that the arrangements, for the provision of dispensers, at any rate, are under the charge of Sir Frederick Treves, Bart., but the Society already has on its books the names of more than a sufficient number of women dispensers for present requirements. The period of service is for at least six months, and the rate of remuneration will probably depend on the locality, although this is not definitely settled. The last paragraph of the "Daily News" statement evidently refers to the fact that since the outbreak of war a number of women dispensers have been engaged in war hospitals under the military authorities. The engagement of such dispensers is, however, "decentralised"i.e., on dispensers sending in their names to the War Office, the names are forwarded to the chief medical staff officer of the command in which the applicant resides, and the dispensers are called upon and engaged by this officer as vacancies arise in the hospitals in the area for which he is responsible. Applications from women dispensers for posts under the scheme outlined above should be addressed to Room No. 93, Offices of the British Red Cross Society, 83 Pall Mall, London, W. Applicants will be called upon as vacancies arise, but, as already stated, more than a sufficient number of applications for present requirements have already been received, and there is a waiting list.

# Reviews of Books.

Potter's Cyclopædia of Botanical Drugs and Prepara-tions. By R. C. Wren, F.L.S., with additions by E. M. Holmes, F.L.S. Second edition. 74 in. by 53 in. Pp. 339. 3s. 6d. (Potter & Clarke, Ltd., 60 to 64 Artillery Lane, London, E.)

WE referred recently to the publication of the new edition of this work, since when we have had an opportunity of noting the improvements which have been carried out. The book is thicker than the previous edition, this being due to the inclusion of many additional drugs, and also because there has been added to the monographs a description of the distinctive characteristics of each drug. Mr. E. M. Holmes is responsible for this part of the work. He has also revised the botanical names of all the drugs, and supplied a glossary of botanical terms and a list of botanical authorities. To show the style of the work, we reprint the following monograph:

Aconitum Napellus, Linn. Aconite (Poison). N.O. Ranunculacea.

Syn.—Monkshood, Wolfsbane, Action. - Sedative, anodyne, febrifuge. febrile and inflammatory diseases, scarlatina, gastritis, and facial neuralgia: also in acute catarrh, ulcerated tonsils. and croup. In palpitation and heart-spasm it has been used with success. Overdoses should be carefully avoided, as no certain antidote is known. Sal-volatile and brandy should should be given at ones in cases of poisoning.

Preparations.—Fluid extract, leaves: Dose, 2-4 drops. Fluid extract, root, U.S.P.: Dose, 4-2 drops. Tincture, B.P.: Dose, 2-15 drops. Liniment, B.P.; Tincture, U.S.P.:

Dose, 10 drops

Distinctive Characters.—Root blackish, conical above, tapering below. Internally white and starchy, with a 5-7-angled star-shaped centre. Taste, tingling, and numbing in less than two minutes. Very poisonous. Poison.—Antidotes: Emetics, ether, ammonia.

A few pages at the end are devoted to Continental herbal compounds, a glossary of botanical terms, and the list of botanical authorities referred to above. The book forms a very convenient reference work for chemists, as some hundreds of different drugs are dealt with, many of them unusual, but all met with in commerce at the present time.

## New Books.

Any book published in the United Kingdom can be supplied to our subscribers at the price quoted. Orders, with remittance, should be sent to the Publisher, 42 Cannon Street, London, E.C.

Banham, G. A., and Young, W. J. Veterinary Posology. 4th edit. 6\frac{3}{2} \times 4. Pp. 272. \( \times \). 6d. net. (Baillière, Tindall & Cox, 8 Henrictta Street, Covent Garden, London, W.C.) [This is the standard work on the doses of drugs used in veterinary practice. The first edition was published in 1887. The present edition, the fourth, has been revised in accordance with the British Pharmacopæia, 1914. In addition to the table of veterinary posology there are tables of formulæ, classification of medicines, therapeutical actions of medicines, incommatibles, diseases and remedies, soluof medicines, incompatibles, diseases and remedies, solubility, etc., and at the end directions are given for using mallein and vaccines for swine fever and swine erysipelas. It is a very useful book for veterinary chemists.]

Botanic Brewer's Guide, with Special Hints and Notes on the Production of Beers so as to Avoid Infringement of the Excise Regulations. 4th edit.  $7_3^8 \times 4_4^3$ . Pp. 42. 1s. 6d. post free. (Potter & Clarke, Ltd., 60 to 64 Artillery Lanc, London, E.) [The first edition of this little book was published in 1899, and in each subsequent edition an endeayour has been made to keep the information up to date. a good guide to the brewing of botanic beverages, and how to avoid excess of alcohol is dealt with very fully and

clearly.]

Koppe, S. W. Glycerin: Its Production, Uses, and Examination. Translated from the second German edition by W. H. Simmons, B.Sc. (Lond.), F.C.S. 5×7½. Pp. viii+250. 7s. 6d. net. (Scott, Greenwood & Son, 8 Broadway, Ludgate, London, E.C.) [This book is a compendium of useful information about glycerin, its production, uses, and oxamination for chemists, perfumers, soap-makers, pharmacists, and explosives-technologists. The employment and production of derivatives of glycerin, especially the pre-paration of nitro-glycerin and the examination of nitroglycerin-containing explosives and the uses of glycerin in glycerin-containing explosives and file uses of glycerin in the manufacture of toilet-soaps, are fully described. The chapters following the introduction deal with: (i.) The Chemical Properties of Glycerin; (ii.) Compounds and Decomposition-products of Glycerin; (iii.) The Production of Glycerin; (iv.) The Production of Pure Glycerin; (v.) The Properties of Glycerin; (vi.) Nitro-glycerin; (vii.) Properties of Nitro-glycerin; (viii.) Dynamite; (ix.) Lead Glyceride (Glycerin-Cement); (x.) Glycerin as a Softening Substance; (xi.) Preparations of Glycerin and Gluc; (xii.) Glycerin Applied to the Manufacture of Inks; (xiii.) Glycerin as Solvent; (xiv.) Various Applications of Glycerin; (xv.) Chemical Analysis of Glycerin; (xvi.) In-Glycerin; (xv.) Chemical Analysis of Glycerin; (xvi.) Investigation of Nitro-glycerin and Dynamite. Seven illustrations are included in the text, and a satisfactory index

Rakshit, J. N. Identification of Common Carbon Compounds. 7×4<sup>3</sup> Pp. 221. Ir. 4a. (B. Dey, Collegian Office, 33 Dixon Lanc, Calcutta.) [Mr. Rakshit has made a special study of the identification of the ordinary carbon compounds, and presents the results in the above work. First compounds, and presents the results in the above work. First of all is given a scheme for the Preliminary examination of a single organic substance, the methods of taking the boiling-point, melting-point, solubility, etc., being stated concisely. The tests for the various substances are then given, the organic chemicals being classified under hydrocarbons, compounds of carbon, hydrogen and oxygen, aldehydes and ketones, acids, ethers and esters, carbohydrates, halogen and nitro-derivatives, nitrogenous organic acids and their derivatives, nitrogen-containing bases nydrates, halogen and intro-derivatives, hitrogenous organic acids and their derivatives, nitrogen-containing bases (amines and substituted hydrazines), alkaloids, glucosides, and colouring-matters. At the end are given a list of reagents and a very interesting table of consecutive melting-points—from glycerin, melting at 20°, to picene, at 364°. The book is a most useful compilation.]

The Medical Annual Synoptical Index for 1905 to 1914. 8½×5½. Pp. 370. 8s. 6d. net. (Wright, Bristol.) [Each issue of the "Medical Annual" contains original articles and abstracts of medical literature of the previous year, and the work has long been recognised for its compactness and utility. The present "Index" presents in a condensed form the contents of the ten Annuals from 1905 to 1914 It is more than an index, as each drug mentioned is followed by notes of the articles which have appeared in the various Annuals, the reference-numbers attached affording a ready means of turning up the full account. information given is in most cases of such a nature that it is not necessary to pursue the subject further, and hence the index volume is useful in itself without the Annuals. At the end there is an article on the metric method of preseribing and a posological table of official drugs.]

# Hypochlorous Antiseptic.

DR. H. D. DAKIN, F.I.C., of the Herter Laboratory, New York, communicates to the "British Medical Journal" (1915, 11, p. 318) a paper on the use of certain antiseptic substances in the treatment of infected wounds, which is chiefly notable on account of the information given regarding the antiseptic power of hypochlorous solution, and as corroborating the observations of Professor Lorrain Smith, his associates, and others (C. & D., July 31, p. 144, also August 14, p. 37). In this article we give the substance of Dr. Dakin's observations:

The destruction by antiseptics of bacteria suspended in water is casily effected, because no proteins are present other than those derived from the micro-organism. The destruction of bacteria mixed with blood, serum, pus, and other exudates is much more difficult, because the antiseptic acts not only on the micro-organisms, but on other protein substances as well. A table is given of bacteriological results, showing that the germicidal activity of several common antisepties is greatly reduced by the presence of common antisepties is greatly reduced by the presence of blood-serum. From experiments it was found that sodium hypochlorite has high germicidal action and many other desirable properties, but as ordinarily prepared it is of extremely variable composition, contains free alkali and sometimes free chlorine, and is consequently irritating when applied to wounds. Dr. Dakin gives the following directions for the preparation of hypochlorite solution containing of 5 to 0.6 per cent of sodium hypochlorite which is directions for the preparation of hypochlorite, which is without irritating action, while retaining its antiseptic properties unchanged (C. & D., August 14, p. 37):

One hundred and forty grams of dry sodium carbonate (Na<sub>2</sub>CO<sub>3</sub>), or 400 grams of the crystallised salt, is dissolved

in 10 litres of tap-water, and 200 grams of chlorinated lime of good quality added. The mixture is well shaken, and after half an hour the clear liquid is syphoned off from the precipitate and filtered through a plug of cotton; 40 grams of boric acid is added to the clear filtrate, and the resulting solution is ready for use. A slight further precipitate of calcium salts may occur, but this is of no significance. The solution should not be kept for longer than one week. The boric acid must not be added to the solution before

The boric acid must not be added to the solution before filtering, but afterwards.

A stronger solution may be prepared by dissolving 150 grams of chlorinated lime and 105 grams of sodium carbonate in 1 litre of water. The mixture is filtered, and 20 c.c. of the filtrate is rapidly titrated with a boric-acid solution (31 grams per litre), using phenolphthalein suspended in water as indicator, in order to determine the amount of boric acid to be added to the rest of the filtrate. An excess of horic acid is to be avoided, so that it is best to add slightly less than the calculated amount. Alcoholic solution of phenolphthalein cannot he used, as the alcohol is at once attacked. The concentrated solution thus prepared contains about 4 per cent. of sodium hypochlorite, and should he mixed with 6 parts of water before use. It can be kept for a month without serious decomposition.

tities of acid and alkali, which simply changes the relative proportion of two or more salts of the polybasic acid in the solution. It was found that the use of the feeble polybasic acid-boric acid-gives a solution containing a balanced mixture of hypochlorite and polyborates of sodium with small amounts of free hypochlorous and boric acids. The irritating action of free alkali is thus avoided. The The irritating action of free alkali is thus avoided. The boric acid, therefore, is not employed for its slight antisceptic action, nor is it employed for the purpose of liherating hypochlorous acid. The hypochlorite solution maintains approximate neutrality under all conditions; is practically non-irritating; and, when properly applied, has given the most encouraging results in the antiseptic treatment of wounds.

To obtain the best results from the use of the solution it To obtain the best results from the use of the solution it is essential to commence the antiseptic treatment as soon as possible, and to bring fresh quantities of the antiseptic solution in contact with all parts of the wound as frequently as possible for a considerable period of time. The solution assists in the rapid dissolution of necrosed tissue, and this is doubtless due to the ability of hypochlorites to attack the NII groups forming chloramines. The author and Professor J. B. Cohen, of the University of Leeds, have examined many different varieties of the large group of chloramines, and found that all substances

containing the group=NCl are strongly antiscptic, and some will probably be found to have practical value. Compounds of this type are formed in situ when wounds are treated with hypochlorous acid, and this is an advantage, as a certain antiseptic action may be expected to persist even after the free hypochlorite has disappeared.

# Nederlandsche Maatschappij ter Bevordering der Pharmacie.

THE annual meeting of the Dutch Pharmaceutical Society The annual meeting of the Dutch Pharmaceutical Society was held in Groningen from July 14 to 16. On the first evening the members and delegates were received by the "Department Groningen" of the Society, afterwards attending a garden concert. July 15 was entirely devoted to the discussion of subjects of social interest, the chief of which was the question of collaboration with physicians in sickfund schemes. The Boards of the Medical Society and the Pharmaceutical Society had drawn up a scheme for a contract to a mode between both Societies according to which tract to be made between both Societies, according to which both Societies would co-operate in founding sickness-benefit funds controlled by the Medical Society. This contract stipulates that the members of the Medical Society and the Pharmaceutical Society would not be allowed to make agreements with administrators of sick-funds of which funds the Boards of both Societies do not approve, and no approval would be given in cases where the sick-fund schemes do not guarantee to the members (the insured persons) free choice between all participating physicians and pharmacists. Moreover, the sick-funds would be bound to admit to the inedical and pharmaceutical panels all physicians and pharmacists of good name and reputation who desire to assist in affording medical and pharmaccutical aid to the members of a sick-fund. The principle that collaboration between the Dutch physicians and pharmacists with regard to sick-fund matters is desirable had already been adopted in 1913 by both parties concerned. The present scheme is intended to bring this into practice. At its meeting on July 5 and 6 the Dutch Medical Society, however, rejected this contract without even discussing it.

The principal point of discussion among the physicians on previous occasions was the question of free choice of pharmacists for the insured persons. The physicians declined to admit this as a condition for sick-fund schemes, although they desired the pharmacists to acknowledge the right of free choice of doctors. It is quite inconceivable that the decision of the Medical Society should represent the opinion of the Dutch physicians in general, and that is why the Dutch Pharmaceutical Society discussed the proposal at the annual meeting. The result arrived at was that no agreement will be made in which the free choice of pharmacist is not stipulated, this being a question of the highest interest for the members of the sick-funds as well as for the pharmacists. The report of the "Department Amsterdam" of the Pharmacouries Springer Sprin dam" of the Pharmaceutical Society compared the decision of the doctors' meeting to the case of a "prejudicial mistake." This refers to the requirement of the Dutch law that when a doctor makes a mistake in writing a prescription the pharmacist who discovers it is compelled to give the physician an opportunity of redressing his mistake. The hope is expressed that, after the warning of the pharmacists, the physicians will now acknowledge that they have made a mistake by not accepting the co-operation on the base of free choice of both physician and pharmacist for the insured persons; at any rate, co-operation with the physicians on any other basis will not be accepted by the Dutch Pharmaceutical Society.

The other subjects dealt with at the annual meeting were only of secondary importance in comparison with this question of sick-funds. A proposal of the "Department Amsterdam" that commentaries upon the fifth and following editions of the Dutch Pharmacopeia should be arranged in a similar way to the "Kommentar zum Deutscher Arzneibuch" was accepted. This was also the ease with a second proposal from Amsterdam aiming at compiling a pharmacopulisal register containing as many case with a second proposal from Amsterdam aiming at compiling a pharmaceutical register containing as many particulars as possible about the professional career of Dutch pharmacists. On the occasion of the eleventh International Congress of Pharmacy such a register was prepared by Professor Dr. G. Honduis Boldingh, who now offered his list to the Dutch Pharmaceutical Society.

On July 16 a scientific conference was held with Professor

On July 16 a scientific conference was held, with Professor Dr. L. van Itallie in the chair. Several persons who had provisionally promised a contribution for this conference were unable to keep their promise on account of the war, but not with the adding these unfavourable circumstances the but notwithstanding these unfavourable circumstances the conference proved that the scientific spirit of the Dutch pharmaeists has not been lost in the large amount of

social and commercial matters which occupy their attentions

at present.

Mr. C. Blomberg discoursed upon the new theories on ionisation as applied to some pharmaceutical preparations, and indicated problems that have not yet been solved. Miss A. Regenbogen read a paper on special cases of incompatibility of medicaments. Professor C. van Wisselingh communicated interesting facts as to results he has reached in applying methods generally used in organic chemistry (such as introducing benzoyl or acetyl groups by means of benzoyl or acetyl groups by means of benzoyl or acetyl chloride or anhydride, etc.) in phytomicrochemical examination. Several new microchemical tests for chiting were shown. tests for chitine were shown.

Professor van der Wielen communicated the result of

the examination of a large number of samples of mustardseed of varied origin in which he had determined the proportions of essential and fixed oils. The suponification and iodino values, the refractive indices, specific gravities, etc., were determined in the fixed oils, the figures showing that, according to the Dutch codex for food oils, mustard oil must be rejected for food purposes. This is to be regretted, as it is an excellent oil for baking-purposes. An improved form of suppositories was also shown by Professor van der Wiclen.

Miss H. H. de Wolff, who had examined the amount of Miss H. H. de Wolft, who had examined the amount of aldehydo and nitrite in solution of ethyl nitrite prepared according to different Pharmacopæias, found that the amount of these substances is lowest in the preparation of the Italian Pharmacopæia and highest in that of the Swedish Pharmacopæia. The author concluded that the product should be preserved in small, well-closed, and completely filled amber-glass bottles.

Dr. J. W. de Waal criticised the methods for determination:

Dr. J. W. de Waal criticised the methods for determination of the quantity of hydrastine in hydrastis extract, and suggested an improved method. The last communication was that of Dr. K. R. Labberté regarding his researches on

urease, the enzyme of sova-beans.

On account of the European war the festivities were limited to a public dinner on the evening of July 15.

Dr. H. L. Visser was chosen Chairman of the Society in the place of Mr. J. J. Hofman, who, though eligible for re-election, could not accept the chairmanship for another year. The annual meeting will be held in Utrecht next year. next year.

# Institute of Chemistry.

PART III. of the "Proceedings" of the Institute of Chemistry has been issued this weck. Reference is made to the deputation which waited on the Board of Trade regarding the means of developing chemical industry in this country (C. & D., May 15, p. 35), and to the establishment of an Advisory Council on Industrial Research which was the result of the deputation. Reference is also made to other scientific Committees which have been appointed in which the Institute is represented through its members. A number of Fellows have been granted commissions in the Royal Army Medical Corps, and others are known to be engaged in analytical work with the Army. It is suggested that in view of the demand for doctors many medical officers might be released from analytical work if professional chemists: and bacteriologists were employed in the Army. Excellent reports have been received from manufacturers who have tried the glass formulæ devised by the Glass Research Committee (C. & D. April 24, p. 90). These have proved satisfactory when employed on a large scale. One of the manufacturers has made a suggestion that the shapes and sizes of flasks and beakers should be standardised. The following additional formula is given for a lead-glass suitable as an enamel for sealing platinum into soft glass:

Red lead (Pb<sub>3</sub>O<sub>4</sub>) ... Sand ... ... ... ... ... ... ... ... 38 parts Potassium carbonate  $(K_2CO_3)$  ... 9 parts Sodium earbonate  $(Na_2CO_3)$  ... 1.7 part Alumina  $(Al_2O_3)$  ... 1.7 part Calcium carbonate (CaCO<sub>3</sub>) part

This glass has a very low fusing-point. It joins quite-satisfactorily on to soft glass tubing, and appears to possess all the essential properties of a reliable enamel for platinum.

The question of pursuing investigations in connectionwith optical glass is in abeyance at present, but a meeting in connection with the National Physical Laboratory is shortly to be held to determine the scheme for the

conduct of the research. Reference is also made to the issue of the "List of Analytical Reagents" ( $\ell$ '.  $\ell$ : D., May 1, p. 48), and to the successful action of British firms in supplying porcelain laboratory-ware and filterpaper. The Council urges all users of chemical-ware to demand British-made products, and thus show their appreciation of the action of firms which have undertaken to meet these requirements. Among the gifts which the Council acknowledges is an engraving of Queen Victoria, received from Mr. Thomas Tyrer, and a series of portraits of chemists formerly belonging to Sir Frederick Abel, and presented by his nephew, Mr. A. G. Bloxam.

Regarding the new premises, which are approaching completion, a statue of Priestley has been placed in the niche over the main entrance. This statue is the work of Mr. Gilbert Bayes, who has also presented the Institute with the first small-scale plaster study from which the figure was developed. A sum of approximately 1,500l. is now required to settle all accounts in respect

of the building and equipment,

# Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

#### A Panel Doctor's Assistant.

A Committee of Inquiry appointed by the Insurance Commissioners sat at the County Hall, Cambridge, on Monday, August 30, to inquire into the complaint of the Cambridgeshire Insurance Committee that the continuance of Dr. Robert Elwell Naish upon the local panel is prejudicial to the medical service of the insured. Mr. Fischer Williams

the medical service of the insured. Mr. Fischer with alms (barrister-at-law) was in the chair, and with him were Dr. Brackenbury (London) and Dr. Milburn (Hull).

Mr. A. Wright, Clerk to the Insurance Committee, called as witnesses several of Dr. Naish's panel patients, who deposed that when they visited Dr. Naish's surgery they were attended to by a Mr. Pain, who gave them medical certificates and prescriptions, instead of the doctor. The certificates were signed "R. Elwell Naish" by Mr. Pain. Mr. W. Bull, an old man, one of the patients, said that the treatment he received was all right, but that the medicine he got with the prescription was "rummy" stuff which

mado him siek.

Mr. Wright also handed to the Committee a list of prescriptions given to persons for whom, he said, Dr. Naish was seriptions given to persons for whom, he said, Dr. Naish was paid to dispense, and also a list showing the value of the prescriptions so given to be 111. 15s. 3d. between February 1, 1913, and October 10, 1914; another list showed a further sum of 10s. 4d. for prescriptions wrongly given between January 1 and March 23 this year. Mr. Wright gave evidence that Dr. Naish did not inform the Committee, although he had been paid for them, that he was sending these prescriptions out. these prescriptions out. The Chairman: Have we any evidence that the prescrip-

tions were dispensed by a chemist?

Mr. Wright: We paid Mr. Moss, the chemist, who lives next door to Dr. Naish, for all of them. Mr. Wright added that nearly three hundred prescriptions were paid for in this

Dr. Naish, on oath, said that most of the prescriptions signed by his dispenser, Mr. Pain (whom he had employed signed by his dispenser, Mr. Pam (whom he had employed for several years), were repeat mixtures. His attention was drawn to this affair of the prescriptions by Mr. Pain, he stated, in the early part of 1914. They decided to let things go on, because they were certain that they would be discovered, and that he would be surcharged.

Mr. Oliver Papworth, on behalf of Dr. Naish, said that the doctor had been seriously ill on several occasions. Patients with normal complaints, he added, had been quite content to see Mr. Pain.

Patients with normal complaints, he added, had been quite content to see Mr. Pain.

Mr. Wright stated that Mr. Pain was a railway clerk when he first went to Dr. Naish, and the latter admitted that when Mr. Pain came to him at first he simply acted as a collector. Dr. Naish remarked that the Insurance Act stated that people who had dispensed for a doctor a number of tweet could continue to do see vears could continue to do so.

The Chairman said that, so far as he recollected, dispensing by a doctor is a thing for which the doctor is personally responsible, and that there is no authorisation in the Act to employ anyone a doctor chooses. A doctor's business is to dispense in cases where he undertakes to

dispense.

The Chairman intimated that the decision of the Commissioners would be sent to the Press.

#### Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

Barnstaple. -It was reported to the Insurance Committee's meeting on August 28 that a panel practitioner had informed the Clerk that medical men are unable occasionally to get prescriptions dispensed in urgent cases. W. J. Sheppard (chemist) stated that when the Insurance Act came into force the chemists arranged a rota, whereby one at least of them opens at certain hours on Wednesdays and on Sundays to meet such cases. He, as Secretary of the North Devon Pharmacists' Association, had received no complaint from the doctors; but if there is such a grievance, and they forwarded particulars to him, he would bring the matter before the lead of the such as bring the matter before the local pharmacists.

Cheshire.—Chemists' claims for 1914 amount to 18,0442, as checked, of which 2261, was for Sanatorium Benefit, 31. for Temporary Residents, and 17,8141, for Medical Benefit. The Pharmaceutical Committee considers that the charges The Pharmaceutical Committee considers that the charges for Sanatorium Benefit are abnormally low, and chemists are requested to exercise care in entering these on the proper sheet, and to direct the attention of practitioners to the necessity of properly endorsing prescriptions. The Sanatorium Benefit accounts have been paid in full. The number of prescriptions was over 400,000, and the Drug Fund for the year shows a shortage of 3,000. For the first half of 1915 66 per cent, of the accounts has been paid.

Cornwall.—The Medical Benefit Sub-Committee reported **Cornwall.**—The Medical Benefit Sub-Committee reported to the Insurance Committee on August 25 that the average cost of prescriptions issued during 1914 was 2s. 3.5d, per person on the doctors' lists, and 8.75d, per prescription. The Panel Committee had investigated the matter, and recommended seven medical men and four firms of doctors for surcharge in amounts varying from 18s. 4d. to 40t. The majority of the drugs on which these surcharges were based were German or American specialities. The Panel Committee were of opinion that much of the malt and cod-liver mittee were of opinion that much of the malt and ccd-liver oil which had been ordered should have been charged to the Sanatorium Benefit Fund, and they suggested that the Insurance Committee should obtain permission to transfer a sam equal to five-sixths of the cost of the same to the Drug Fund. The Committee adopted the suggestion. A member stated that he had reported to the Clerk a case in which a chemist had refused to dispense a prescription written by a panel practitioner. The Clerk said that the complaint had been forwarded to the Pharmaceutical Committee. Committee.

Hampshire.—The report of the Pharmaceutical Committee for 1914-15 shows that the principal matters dealt with during the year were: (a) Setting up the Prescriptionchecking Committee, engagement of checker and supervision of his work; (b) adoption of a county Pharmacopoia; and (c) preparation of Tariff for 1915. The work of the Prescription-checking Committee has gone smoothly, and the reports furnished have enabled the Committee to stop extravagant prescribing. The principle that the Panel Committee should write to the individual doctor guilty of extravagant prescribing has been adopted with success. This, with the county Pharmacopeia, has reduced the average cost of prescriptions by 1.2d. Local checking of prescriptions has enabled the Insurance Committee to pay chemists' accounts monthly instead of quarterly. In October Mr. A. E. Chaston, Ph.C., representative on the Insurance Committee, resigned and Mr. C. H. Baker, Ph.C., was appointed in his place by the Commissioners on the nomination of the Committee. In the new scheme of representation on Sub-Committees adopted by the Insurance of the committees adopted by th cheeking Committee, engagement of checker and supervision of representation on Sub-Committees adopted by the Insurance Committee Mr. Baker is a member of the Finance and General Purposes, Sanatorium and Medical Benefit Suband General Purposes, Sanatorium and Medical Benefit Sub-Committees, and it is suggested that the Pharmaceutical Committee should now press for at least one more member on a Committee of eighty members. A summary of chemists' accounts for 1914 and the first half of 1915 is included in the report (C. & D., August 7, p. 55). The financial state-ment shows that 50L was received from the Insurance Com-mittee for administrative expenses, of which a balance of 141, 8s. 11L remains. The Committee's share of the checker's salary to June 30, 1915 (40L 4s. 10d.), is not included in the statement of expenditure.

Letcestershire.—The Finance and General Purposes Sub-Committee reported to the Insurance Committee on Sub-Committee reported to the Insurance Committee of September 1 that the sum available for the emergency settlement of chemists' accounts for 1914 is 4,327. This includes the amount available for medicines supplied to temporary residents, but no account has been taken of any surcharges made by the Committee under Article 40 or of any transfer from the Sanatorium Benefit Fund to the Days Fund is respect of prescriptions yet reporally marked. Drug Fund in respect of prescriptions not properly marked.
The administrative expenses of the Pharmaceutical

Committee are chargeable against the funds available. Chemists' accounts for 1914, as checked, amount to 4,146l.; temporary residents' accounts to 22l. 16s. 5dl.; Pharmaceutical Committee's expenses. 94l. 17s. 8dl.; total, 4,264l. Chemists' accounts have been paid in full, leaving a balance of 63l.

Manchester.—Panel chemists have been paid 90 per cent. of the amounts of their accounts for July. Payment for war-scheduled drugs supplied to December 31, 1914, has also been made.

Middlesex. -In the annual report of the Pharmaceutical Committee for the year ended July 15, 1915, it is stated that the conjoint arrangement with London for checking accounts worked very badly for some months, but as a result of persistent efforts the scheme has worked satisfactorily since the beginning of 1915. Mr. Hugo (Secretary) was appointed representative on the Joint Checking Committee, and it is largely due to him that such cordial agreement has been maintained. The use of "Rep. from January 1, 1915. Owing to the necessity of close scrutiny of prescriptions over a certain value, many were held up and thoroughly investigated, involving considerable labour, and the financial benefit to the Drug Fund has not been commensurate with the labour involved. Several thousands have been referred to the Panel Committee, but the only relief is the reduction of the average from 9.7d. to 8.2d. The causes of depletion of the Drug Fund were investigated, tabulated, and submitted to the various bodies investigated, tabulated, and submitted to the various bodies involved, and since this was done manifest improvement has appeared. Owing to the enlistment figures not being available, only 75 per cent. on prescriptions for 1915, as checked, is paid on account. It is hoped that the efficiency of the checking will eliminate discount in 1915. There have been no complaints against the service of pharmacists throughout the county. The following summary of chemists' accounts examined by the Joint Checking Committee for the period ended December 31, 1914, is given:

	Nu	ımber o	f Number of	Amount	Average
	Δ(	ccounts	Prescriptions	Allowed	Cost
				£	d.
Period ended May 11, 1914		950	294,745	11.092	9.03
Month ,, June 11, 1914		267	68,417	2.600	9.12
,, ,, July 11, 1914		283	70.669	2,603	8.84
,, ,, August 11. 191	4	247	62,312	2,277	8.77
" , Sept. 11, 1914		313	74,116	2,560	8.28
., ,, Oct. 11, 1914		277	58,912	2,104	8.57
., ,, Nov. 11, 1914		211	54,468	1,940	8.54
,, Dec. 11, 1914		272	66,421	2,282	8.24
Period , Dec. 31, 1914		298	46.352	1.615	8.36
Schedulea Drugs		467	32,409	1,183	8.75
Supplementary Sheet		78	14,929	502	
Totals		3,663	843,750	£30,760	8,74

The financial statement indicates that the expenses of the Committee amounted to 252l., for which an equivalent grant was received from the Insurance Committee.—Panel chemists have been notified by the Secretary of the Pharmaccutical Committee that the Middlesex Formulary mixtures are not stock mixtures and must be freshly dispensed each time. They will bear full dispensing-fees. The Pharmacutical Committee acknowledges their indebtedness to the Panel Committee for the prompt withdrawal of the pro-prietary mixtures included in the Formulary. Gummed Gummed slips bearing formulæ to replace these are enclosed. consequent alterations in the prices allowed date from September 1. Chemists are informed that it is unnecessary to copy in the formula of each prescription. These will be priced by the checker, and the Committee has taken steps to safeguard the interests of chemists.

Portsmouth. - The Clerk reported to the Insurance Committee on August 27 that up to that date thirty-two out of the forty-two chemists on the panel had accepted the emergency settlement for 1914 (C. & D., August 14, p. 41).

Sheffield. -The Insurance Committee on September 1 granted the Pharmaceutical Committee 30%, for administra-tive expenses. On the recommendation of the Clerk, it was decided to pay to chemists a seventh payment for 1915, 5861.: to certain chemists for appliances supplied to 5861.: to certain chemists for appliances supplied to practitioners, 191. 15s.; to medical men for emergency dispensing, 2l. 11s.; and to Mr. W. J. Uglow Woolcock, 5s. It was stated that 172.276 insured persons were on the Committee's register on July 1, and 155,936 on the doctors' lists. The Commissioners have approved the appointment of the temporary checker in place of Mr. B. Lancaster, who is ill, and the Committee agreed to give Mr. Lancaster leave of absence till September 30. Miss Airev and Messrs. Blackburn and Brown were appointed members of the Pharmaceutical Service Sub-Committee. This Committee, at a meeting held subsequently, appointed Alderman Marsh Chairman and Councillor F. A. Marlow Deputy-Chairman.

The following are the alterations in the prices of panel Formulary preparations for September: No. 25, 7½d.; No. 53, 8d.; No. 62, 7½d.; No. 64, 5½d.; No. 65, 7½d.; No. 66, 8d.; No. 74, 8½d.; and No. 102, 2d. per oz.

Southport.—At a meeting of the Insurance Committee on August 31, Mr. F. Battersby (chemist) protested against the recommendation of the Finance Sub-Committee to pay to chemists only two-thirds of the amounts of their June accounts, as it appeared that there is a small surplus in the Drug Fund for the half-year. The Chairman explained that payment is being made in accordance with the Commissioners' suggestions. Payment was made in full to the end of May, and the present deduction is on account the end of May, and the present deduction is on account of the uncertainty regarding the figures owing to recruiting. Mr. Battersby's protest would be noted. The Sub-Committee's recommendation was adopted.

West Bromwich .- In the course of the Pharmaceutical West Bromwtch.—In the course of the Pharmaceutical Committee's report for 1914-15 the more important work of the year is dealt with—viz., allowance to panel practitioners for emergency medicines (Tariff rates); the joint-checking scheme for Smethwick, Wolverhampton, and Dudley; absence of complaint against panel chemists, except that a panel practitioner complained of inaccurate dispensing without making a specific charge, but his remarks were sent to each chemist. The report deals fully with other matters which are chiefly of local interest.—The Insurance Committee has issued to panel chemists notes of prices for mittee has issued to panel chemists notes of prices for various quantities of Formulary preparations. Amended figures will probably be sent each month for preparations containing "starred" drugs. The prices given include dispensing-fees.

Witshire.—The Insurance Committee met on August 25. The Finance Sub-Committee recommended payments to chemists of the balance of their accounts for the second quarter of 1915, and payments on account of 90 per cent. for the third quarter on receipt of accounts. The Sub-Committee also recommended payment to chemists, in full settlement of the 1914 accounts, of 293t. The Chairman of the Sub-Committee stated that the Commissioners had sanctioned payment of the accounts for special warscheduled drugs (16t, 6s. 9d.), and the Committee ordered these accounts to be paid. The report on prescriptions indicated that for the second quarter of this year 20,945 prescriptions (value 674t.) had been dispensed, compared with 24,330 prescriptions (value 832t.) in the second quarter of 1914. The Medical Benefit Sub-Committee submitted a report from the Panel Committee on the prescriptions for Wiltshire.—The Insurance Committee met on August 25. of 1914. The Medical Benefit Sub-Committee submitted a report from the Panel Committee on the prescriptions for the last quarter of 1914. The Panel Committee was unable to find evidence of excessive prescribing, but noted a few instances where drugs were ordered by proprietary names instead of their chemical equivalents. Practitioners are again reminded that they will be liable to surcharge if this practice is continued. The same Sub-Committee also reported that the Pharmaceutical Committee had written regarding the use of distilled water in dispensing. The regarding the use of distilled water in dispensing. The letter had been forwarded to the Commissioners, who replied that they do not approve of any change in the Drug Tariff during the year, and that, while "there would be no objection to the informal circulation of a statement for the assistance of chemists such as that prepared by the Pharmaceutical Committee, the decision as to whether incompatibility would occur in any case in which aqua has been prescribed must on each occasion rest with the individual chemist, and it would therefore be liable to cause misunderstanding if the clause suggested by the Pharmaceutical Committee were formally embodied in the Drug Tariff." The Commissioners' letter is to be sent to the Pharmaceutical Committee, whose request for an advance on account of 151, for administrative expenses was agreed to.

#### Notes.

INSURANCE CONTRIBUTIONS OF SOLDIERS.—An Army Order states that from July 5, 1915, stamps and cards will cease to be used for Insurance contributions of soldiers, but all stamping outstanding for any period before that date will be completed.

B.M.A. AND THE DRUG TARIFF.—The Insurance Acts Com mittee of the British Medical Association on August 19 discussed the question of drug-supply finance in the event of the introduction of a Tariff on a commercial basis. The discussion was continued at an adjourned meeting held on August 26.

GUNPOWDER AS A REMEDY.-Dr. John H. Clarke, Bolton, has issued a pamphlet on the use of gunpowder as a war-remedy. It is stated that, owing to the charcoal, sulphur, and saltpetre it contains, gunpowder, when taken internally, prevents the suppuration of wounds. Many examples of its curative action are given. The pamphlet is published by the Homeopathic Publishing Co., 12 Warwick Lane, London, E.C., price 6d.

#### A Far-West Pharmacy.

Mr. Duncan E. Campbell, wholesale and retail druggist, Victoria, British Columbia, is the owner of the fine pharmacy building here illustrated, which has been the subject of a somewhat lengthy lawsuit now decided in favour of



uit now decided in favour of Mr. Campbell by Mr. Justice Morrison. The building is known as the Campbell Block, and is situated in Fort and Douglas Streets, Victoria. It was erected to Mr. Campbell's order by the Worthelman Lumber Campbel. Westholme Lumber Co., and they sued him locally for \$65,402.04 as the balance due on the contract for the construction of the building, the struction of the building, the total cost of which was \$168,187.90. Mr. Campbell's defence was that the Westholme Co. contracted to build the block for \$106,000, and the contract contained a clause whereby the ground floor had to be finished by August 14, 1912, and for every day after that the contractor was to forfeit \$25. This clause also provided for a payment of \$40 per day for every day

after December 1, 1912, that the building remained unfinished. This clause was subject to a provision that there finished. This clause was subject to a provision that there was no delay in the construction through any action of the proprietor. It was proved that the final statement of cost was \$124,546. Mr. Campbell claimed that the company did not finish the work under contract, and that he had to complete it at his own cost. The whole of the original contract-price was paid, and Mr. Campbell claimed \$4,677 for depuryage. For this Mr. Justice Morrison gave him for demurrage. For this Mr. Justice Morrison gave him judgment, with costs. We hope to reproduce a photograph of the interior of this pharmacy when opportunity permits.

# Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

Miss E. L. Hoare has been appointed dispenser to Kensington Parish Infirmary.

Mr. WILLIAM BRIGGS, chemist and druggist, The Vale, Lancaster, has consented to allow himself to be nominated for the third consecutive time as Mayor of the borough.

MASTER NORMAN WITHERS, aged fourteen, younger son of Mr. I. M. Withers, President of the West Bromwich Pharmaceutical Association, was successful in the recent London College of Music examination, pianoforte playing, primary division.

Mr. J. M. LLOYD, son of Mr. Walter Lloyd, chemist and druggist, Carmarthen, pluckily endeavoured to rescue a boy from drowning at Llanstephan recently. Mr. Lloyd swam to the spot where the boy had disappeared, but was unable to find him.

Mr. John Arthur Gamble, Elm House, Park Lane, Preseot, brother of Sir David Gamble, Bart., alkali-manufacturer and Mayor of St. Helens, has been placed on the Commission of the Peace for Lancashire. It is interesting to note that the father and grandfather of the Mayor also held the office.

Mr. George Wilshaw, a departmental manager of S. Maw, Son & Sons, 7 to 12 Aldersgate Street, London, E.C., Maw, Son & Sons, 7 to 12 Aldersgate Street, London, E.C., has recently celebrated his jublice in the service of the house. As a mark of their esteem the members of the staff presented Mr. Wilshaw with a gold watch and an illuminated address, the meeting taking place in the showroom under the chairmanship of Mr. John Denton, the senior member of the staff, who himself has been in the employ of Messrs. Maw for fifty-three years, still retaining the position of chief cashier. When thanking the donors Mr. Wilshaw referred to an interview he had had with the members of the firm, who presented him with a handsome cheque in recognition of his services and of his associations. Another member of the staff has this year his associations. Another member of the staff has this year completed his jubilee—viz., Mr. W. J. Ridley, warehouseman, and he was presented with a tea-service, a dinner-service, and a purse of gold.

COUNCILLOR HENRY BALL, Ph.C., has been nominated as COUNCILLOR HENRY BALL, Ph.C., has been nominated as Mayor of Southport by the Liberal party, whose turn it is to select the mayor of the borough. Councillor Ball is a native of the town, and was apprenticed to his brother, Mr. George Ball, Ph.C., Lord Street, Southport. He passed the Minor examination in 1882 and the Major in 1883, then commenced business in Lord Street, Southport, and continued till 1910, when he retired. Mr. Ball is an enthusiastic betavist and is an expect in the local flora. When the botanist, and is an expert in the local flora. When tho British Association visited Southport in 1903 he acted as one of the Secretaries of the Botanical Section. In 1906, at Mr. Ball's suggestion, a Botanical Section of the Southport Society of Natural History was formed, and as Chairman he delivered a monthly lecture. He was the first in Southport to produce an actual photograph with x rays, and he is at present honorary radiographer to the Southport Infirmary. He was also the first local photographer to exhibit specimens of Lumière's colour-photography. Mr. Ball has been a member of the Town Council for three years, his chief work being on the Gas Committee and on the Educa-tion Committee, of which he is Vice-Chairman.

## Trade-Marks.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with the Registrar of Trade-Marks, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C. The prescribed time is one month from the date of the Journal in which the application has appeared; but the period may be enlarged by the Registrar, if he thinks fit, and upon such terms as he may direct. Formal opposition should not be lodged until after notice has been given by letter to the applicant for registration, so as to afford him an opportunity of withdrawing his mark before the expense of preparing the notice of opposition is incurred. Failing such notice to the applicant, an opponent may not obtain an order for costs.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1915, p. 435.

#### Erratum.

"Nutker" is the word applied for by Eglington, Yates & Co., Birmingham, for an almond-substitute—not Nuther," as printed in the C. & D., August 28, p. 67,

(From the "Trade-marks Journal," August 25, 1915.)

"VELLSKYN"; for a toilet-powder (48). By Isobelle Deacon,
46 Crayford Road, N., and A. W. Shirley, Whitecross,
Works, Rockingham Street, S.E. 367,175.

"GLINTNOS"; for dentifrices (48). By the Standard Tablet

and Pill Co., Ltd., 2 Hove Park Villas, Hove. 368,155.

(Associated.)

"HISPANIA" over circular device including scales ("Hispania" disclaimed); for hair-combs (50). By the North British Rubber Co., Ltd., Castle Mills, Edinburgh. 367.136. (Associated.)

"Mon-I-Tor"; for hair and other brushes and for combs (50). By A. de St. Dalmas & Co., 40 Belgrave Street,

Leicester. 368,558.

"O-YES"; for brushes, etc. (50). By Florence M. Hewlett, Elysia, South Woodhams, Chelmsford, 368,133.

(From the "Trade-marks Journal," September 1, 1915.) "TRIUMPH," with picture of chariot-race; for goods (1). By Goodlass, Wall & Co., Ltd., 42 and 44 Seel Street, Liver pool. 368,026. (Associated.)

"LORACINE"; for all goods (2). By R. Lehmann & Co.,

Ltd., Peninsular House, Monument Street, E.C. 368,520.

"PEROXYDOL''; for peroxide of hydrogen (3). By New Oxydol Products, Ltd., 23 Fitzroy Square, London, W. 367,778. (Associated.)

Oval device, with words "Mothersill's Seasick Remedy" and pictures of ship and train ("Mothersill" disclaimed); for a sea- and train-sickness remedy (3). By W. H. Gerson, 19 St. Bride's Street, E.C. 368,055.

"Sporocine": for a liquid ringworm-remedy (3). By Isabella Georgeson, The Red House, Lauder, Berwickshire. 368,190.

"AGOMENSIN" and "SORCYM"; for all goods (3). By Society of Chemical Industry in Basle, 141-227 Klybeck-strasse, Basle. 368,559/561.
"Nebuale"; for medicinal chemicals (3). By C. H. Raschen, 6 Inverness Gardens, London, W. 368,564.

Ariel'; for goods (8). By A. W. Gamage, Ltd., 125-128 Holborn, W.C. 366,659.

# Australasian News.

"The Chemist and Druggist" is supplied weekly to all the members of eight Chemists' Societies in Australia and New

Belgian Pharmacists' Fund.—An appeal is being made to Australasian pharmacists to raise 1,000% in aid of this Fund. About 850% has already been subscribed. This does not include the money raised in New Zealand, which on June 3 had reached the total of 668% 11s. 6d.

#### New South Wales.

STRYCHNINE FOR QUININE.—At an adjourned inquest held at Newcastle on July 9 into the death of Annie Page, a widow, the finding was that deceased died from taking window, the initial was that deceased died from taking strychnine negligently and unlawfully dispensed and sup-plied by a medical man named Petherbridge. The doctor was committed for trial on a charge of manslaughter. According to the evidence at the inquest, the doctor employed strychnine in making up a neuralgia-mixture in place of quinine. He only read part of the label, "nine hydrochloride," and took this to be quinine hydrochloride. The bottle was labelled "Poison." but that part was hidden by some articles in front of it.

CLAIM AGAINST A CHEMIST.—At Sydney, on June 8 and 9, an action was tried before Judge Murray in which a woman, named Cox, claimed 2007, damages against Mr. H. T. C. Brennan, pharmacist, Cremorne Junction, Mosman, H. T. C. Brennan, pharmacist, Cremorne Junction, Mosman, for alleged negligence and unskilful compounding of a prescription. The prescription was for 1½ oz. each of compound syrup of glycerophosphates and syrup of three phosphates, B.P.C. Plaintiff said she became ill after taking the medicine, and Mr. F. H. Molesworth, F.C.S., stated that the mixture contained considerable excess of acetic acid. For the defence Mr. G. A. Byrn, F.I.C., stated that the mixture was correctly compounded. In giving judgment for defendant, Judge Murray said it was one of those cases where because a person became ill after taking medicine. where, because a person became ill after taking medicine, it was concluded that it was the medicine that caused the illness. In this case the plaintiff had not a leg to stand on. He was satisfied the defendant dispensed the prescription correctly, and he would leave the court without a stain on his character. In respect to the question of costs, the Judge said he was sorry for the plaintiff, but he was sorry for the defendant, who had his reputation to uphold. Defendant would be awarded his costs.

#### New Zealand.

A.P.C.—The meeting of the Australasian Association for the Advancement of Science which was to have been held in Hobart next January has been postponed. This probably involves the postponement of the Australasian Pharmaceutical Conference which had arranged to meet at the same time, and is virtually a section of the A.A.A.S.

PHARMACY BOARD HOSPITAL SHIP.—The fund promoted by the Pharmacy Board for the purpose of providing a hospita ship for use in the war realised up to June the sum of 675*l*. Beside the money gifts, 500 lb. of cotton-wool was received from Young's Chemical Co., Wellington. The promoters of the fund have chartered the s.s. *Maheno*, which is being fitted up for heapited represents fitted up for hospital purposes.

HEALTH ACT.—It is alleged that evasions of the Health Act by chemists occur from time to time. An investigation has shown that at least in some cases these breaches of the Act are not due to deliberate intent, but to negligence on the part of chemists to provide slip labels to bring old labels in the limit of the control of th into line with the regulations, or to obtain new labels into line with the regulations, or to obtain new labels bearing the required wording. The attitude of the Commissioner of Public Health has been lenient in regard to defective labelling, but it cannot be expected that he will continue to overlook the default indefinitely. The treatment of venercal diseases is another subject which calls for notice. It is now well recognised in Brisbane that it pays better than it did formerly to send a client to a medical man to treat the case, provided always that the patient returns with the prescription. A case has been reported where a woman suffering from rash and a bad throat was subsequently found on examination by a medical man to be suffering from syphilis. She stated that a chemist had prescribed a liver-mixture for her.

#### South Australia.

APPRENTICES ON ACTIVE SERVICE.—At the meeting of the Pharmacy Board of South Australia on June 17, Mr. Porter moved that "the time spent by apprentices serving their country abroad, on active service, be considered as time served in apprenticeship." He said students of law serving articles are being granted the privilege of allowing time served on active service to count as time served under those articles. The Pharmacy Board should extend the same privilege to apprentices. It was the least the Board could do, and as most of the youths joined the A.M C., the experience obtained would be invaluable. As long as an apprentice or student passes the necessary examinations, that is all the Board would ask of those who went abroad that is all the Board would ask of those who went abroach to serve their country. The Board decided unanimously in favour of Mr. Porter's suggestion. Those apprentices who intend going to the Front are asked to communicate with Mr. Young, the Acting Registrar, in order that a note may be made of their cases.

#### Tasmania.

Poisons Bill.—A special meeting of the Pharmacy Board was held on May 27 to consider the Sales of Poisons Bill. After a long discussion upon the Draft Bill, the President was instructed to place the views of the Board before the Chief Secretary, and it was resolved:
"That the draft Poisons Bill, as prepared by the

Government, is such that the Pharmacy Board cannot give it support."

At the meeting of the Board on June 17, the President reported having spoken with the Chief Secretary, and read a letter from the Chief Secretary asking for the Board's a letter from the Chief Sceretary asking for the Board's reasons for objecting to the Bill drafted by the Department. Having discussed the Chief Secretary's letter and Mr. Rushton's report, it was unanimously decided that:

"The Board adheres to its previous decision, and would point out that the draft Bill submitted by the Board is on the lines of the most recent English and Victorian legislation."

#### Victoria.

Consolidated Statutes.—The Medical and Poisons Acts have been consolidated by Mr. Justico Cussen, and have passed through Parliament without amendment.

PROPRIETARY MEDICINES .- A discussion on the sale of proprietary medicines took place in the Legislative Council on June 15. Mr. J. P. Jones, moving the adjournment of the House, said that it is desirable to create public conscience on the question so that the Minister might be strengthened to introduce legislation which would cope in some way with the evil of the sale of quack remedies. One awful quack business had been carried on in Australia for several years and is still carried on in Victoria, although it had been prohibited in New South Wales. Remedies for such diseases as tuberculosis, Bright's disease, and cancer have not been found, yet patent medicines impudently claim to be able to cure half a dozen discases with one remedy. Members of the medical profession throughout Australia are, on the whole, more concerned with the curing of discase than with the question of the payment of fees, and it is well known that they give a large portion of their valuable time to the poor members of the community. Mr. R. B. Rees, formerly in business as a pharmacist, seconded the motion. Since 1908, he said. New South Wales has been in the Since 1908, he said. New South Wales has been in the position to take action against quack remedies, and the Pharmacy Board of Victoria has repeatedly asked the Government to extend its powers to deal with this evil, and a report was at that time before the Minister. The chemists in Victoria would be unanimous in preventing the sale of quack remedies because, without these compounds, they would be able to sell their own remedies which would have the guarantee of their reputation. A reputable chemist, would understand what he was compounding and have the guarantee of their reputation. A reputable chemist would understand what he was compounding and what he would be recommending. If a person went to a chemist suffering from a slight ailment the chemist would be perfectly justified in prescribing within the limits of a simple remedy. A chemist, however, is not justified in prescribing for any serious complaint. That is a matter which should be left to a medical practitioner. Care should be to the restriction of the property of the great statement. be taken not to go too far in the way of restricting remedies. If a person is suffering from toothache or headache, or perhaps some slight congestion of the liverailments which affected them all and are easy to deal withit would be absurd to compel him to go to a doctor and pay a fee of 10s. 6d. besides having to pay for the cost of the prescription. When a person is suffering from these simple ailments he goes to a chemist who is perfectly well qualified to diagnose the complaint and prescribe a simple remedy. Mr. J. D. Brown, Minister of Public Health, said that more than nine months ago the matter of proprietary medicines was mentioned in his notes on the Health Act, and an amendment of that Act would not escape his attention.

RUSSIAN CHAMOMILES.—During 1914 15 tons of chamomileflowers, valued at 830%, were exported from Poti, compared with 18 tens, valued at 940%, in 1913.

# Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

## 42 Cannon Street, E.C., September 2, 6.30 p.m.

THE general condition of the markets remains much the same as last week; there is a fair amount of business passing, and values in most instances are firmly maintained. Among the medicinal group of chemicals the prices of a number of products appear to have reached their maximum for the time being, and buyers generally are less keen in ordering large quantities at the present inflated and in many instances fictitious prices. fair arrivals of chemicals are still taking place from the United States, but of late there has been a marked falling off in purchasing power from this side, and at the present rate of exchange this situation is likely to continue. Salicin has been advanced 5s. and santonin by 9s. per lb.; salicylates are unchanged. Refined camphor is slow and easy; menthol is firmer; the unseasonable weather still affects the demand for citric and tartaric acids and cream of tartar. Among industrial chemicals carbonate of ammonia has been advanced  $\frac{1}{2}d$ ; sulphate of ammonia is quiet; copper sulphate is dearer; potash permanganate is easier. First's Montreal potashes have risen sharply, and arsenic is dearer. Among drugs, agaragar is scarce, and higher; ergot is plentiful and cheaper; new French digitalis is dearer; gentian and gamboge are scarce, the latter being held for an advance; new crop Californian honey is freely offered; insect-powder has been selling well of late; good arrivals of Matto Grosso ipecacuanha are reported; kola is still inquired for, and sales of fine strip orange-peel have been made at an advance; nux vomica is more freely offered on spot, and is on the easier side. Opium and quinine are steady. The chief changes are as under:

Higher	Firmer	Easier	Lower
Agar-agar Ammon. carb. Arsenic Copper sulphate Cumin-seed Digitalis Gamboge Potashes Salicin Santonin	Caraway-seed Cinnamon (c,i.f.) Cocoa-butter Linseed oil Menthol Milk-sugar Orange-peel Peppers Shellae Soya oil	Anise oil, star Nux vomica Potash permang. Tartarie acid Turpentine	Canary-seed Coconut oil (Cochin) Cottonseed oil Ergot Quicksilver

A drug-auction will be held next week, September 9.

#### Cablegram.

New York, September 2.—Business in drugs is active. Opium is dearer at \$7.15 per lb. for druggists' quality in single cases. Mexican sarsaparilla is easier at 13c., and balsam Canada has been reduced to \$5.00 per lb. Arnica-flowers have been advanced to 25c. Balsam tolu is easier at 39c., and hydrastis (golden seal) is lower at \$4.35. Curação aloes in cases is dearer at 13c. per lb. Peppermint oil and menthol are unchanged.

#### London Markets.

ACETANILIDE is unchanged, but later in the year the position is expected to be easier, as larger supplies of aniline oil in U.S.A. will be available.

ACETONE is still a very firm market at 140%. per ton for Government specification quality. The unfavourable American exchange interferes greatly with shipments to this side.

AGAR-AGAR is scarce and dearer, with sales of No. 1 Japanese strip at 2s. 4d. to 2s. 6d. per lb. on spot; also to arrive at 2s. 2½d. to 2s. 3d. c.i.f., No. 2 having been sold at 2s. 1d. c.i.f., but there are now no further sellers at these prices. A large business has been done. A report on Japanese trade appearing in the "Chamber of Commerco Journal" states that in spite of the boycott in China hitherto the best customer—the price has advanced, owing, it is said, to a demand springing up in Europe, where it is being used as a substitute (and incidentally a more wholesome one) for glucose in stiffening fruit-preserves.

Ammon. Carb. has advanced by  $\frac{1}{2}d$ . per lb., lump in 2-cwt. barrels offering at 5d. and powdered at  $5\frac{1}{4}d$ . per lb.

Ammonia Sulphate is quiet and unaltered at 131. 17s. 6d. to 14l. per ton net, naked at works, London, for 25-per-cent. ammonia; Hull, 24-per-cent. is 14l. 7s. 6d. to 14l. 10s.; Liverpool, 14l. 10s.; Leith, 14l. 15s. per ton in bags f.o.b., less 31 per cent.

Anise Oil.—Star continues easy, "Red Ship" brand offering at 3s. 1d. per lb. c.i.f. to arrive, the spot value being about 3s. 7d. per lb.

ANTS' Eggs are offered at 1s. 8d. per lb. c.i.f.

APOMORPHINE.—Hydrochlor, is listed at 52s. per oz., the quotation is nominal, as makers have more orders than they can cope with.

Arsenic has become comparatively scarce owing to labour difficulties and the increasing cost of packages, which makes the value of best white Cornish powder about 251. per ton.

Barbitone.—From 44s. to 45s. per lb. is quoted.

BISMUTH SUBNITRATE.—Makers are sold out, and the business is confined to second-hand lots at between 12s. 6d. and 13s. per lb.

CANARY-SEED is lower, at 74s. to 75s. per quarter for fair quality.

Caraway-seed is rather dearer, at 38s. 6d. per cwt. for fair new-crop Dutch on the spot.

Cascara Sagrada.—A few tons of the new crop offer for prompt shipment at 49s. c.i.f., and there is a little 1913 bark to be had at 51s. 6d. on the spot.

Celery-seed.—Several spot parcels have been sold at 120s. per cwt.; to come forward from Marseilles 140s. is quoted.

Cellulose Acetate.—Sellers quote 7s. per lb., which price may be shaded for quantity.

CHAMOMILES.—French are offered at reasonable prices, including old-crop brownish at 115s. and good white new-crop at 135s. per cwt. Some of the new Belgian crop will probably be offered towards the end of October, but it is not anticipated they will be obtainable below 130s.

Chloral Hydrate.—New consignments are coming forward from the Continent, which are expected to ease prices.

CINCHONA.—At the tender held at Amsterdam on August 26 the quota was 10,847 packages manufacturing bark, weighing 912,441 kilos. the quinine-content being equivalent to 55,566 kilos. The average percentage was of the above quantity 7,537 packages, weighing 643,178 kilos., with a quinine-content of 38,435 kilos., were bought by the makers at the average unit of 6.20c., against 6.20e. at the previous tender. At the auction of pharmaceutical bark, 2,151 packages, consisting of 1,029 bales, and 1,122 cases Java, and weighing 114,733 kilos., were offered, the total quinine-content being 3,074 kilos.; of this quantity 641 bales and 630 kilos., weighing 63,053 kilos., were sold, the quinine-content being 1,521 kilos. The prices ranged from  $10\frac{1}{4}$ c. to  $54\frac{3}{4}$ c. per half-kilo.

CITRIC ACID is quoted at 3s. 2d., which price may be shaded.

CLOVE OIL is quoted at from 5s. 1d. to 5s. 3d. per lb. as to quantity.

CLOVES are dull of sale, fair Zanzibar on spot offering at  $6\frac{3}{9}d$ . and dark at  $6\frac{1}{4}d$ .; to arrive September-November shipment sellers quote  $5\frac{1}{2}d$ . c.i.f. London d.w., and August-October delivery at 6d.

COCAINE is unchanged at from 13s. 6d. to 14s. per oz.; there

has been a revival in export demand lately.

Coca-Leaves.—At the auction of Java leaves, held at
Amsterdam on August 27, 1,465 packages, weighing 76,995
kilos., were offered, the total alkaloidal-content being
1,055 kilos. The average percentage was 1,38 against 1,50
at the previous auction and account of 1,64 per content. 1,055 kilos. The average percentage was 1.58 against 1.50 at the previous auction, and an average of 1.64 per cent for the nine auctions of 1914. Of the above quantity, 277 packages, weighing 137,262 kilos., with a total alkalpidal-content of 228 kilos., sold at from 21c, to 263c, per half-kilo. The average percentage paid with a quiet market was 14.46c., against 14.27c, at the previous auction.

COCOA-BUTTER.—Business has been done in English at from 1s, 6d, to 1s, 6½d, per lb.

Cop-liver Oil.—A lack of interest is shown in the market for medicinal oil in Norway, and practically no business is reported. London market is unchanged, agents quoting from 325s, per barrel c.i.f and upwards.

Colocynth is quiet, with the supply of Turkey apple practically in the hands of one holder, who asks 1s. 6d. Syrian to arrive is quoted 10½d.; good pulp is offered at

1s. 5 d.

COPPER SULPHATE is from 15s. to 20s. per ton higher, at from 27l. to 27l. 10s, for the usual Liverpool brands.

CORIANDER-SEED is steady, at 12s. 6d. to 13s. per cwt. for

ordinary to good Moroces.

COUMARIN is quoted at from 24s. to 25s, per lb., being

slightly higher

CREAM OF TARTAR. - There are no large supplies in the hands of dealers or second-hands who have not been following the advance. There are only limited supplies coming forward, but the adverse weather conditions and the already high prices have restricted consumption. The value of 98-per-cent. powder is about 185s.

CUMIN-SEED is dearer, 65s, to 70s, per cwt, being now asked

for ordinary to good clean Morocco on the spot.

DEXTRIN of fine quality is quoted at 35l. per ton on the spot, and superior Dutch Farina is worth about 28l. 10s.

DIGITALIS-LEAVES.—New-crop French is dearer at about the equivalent of 85s, per cwt. landed terms.

Dull-seed.—East Indian has been sold at 17s. 6d. per cwt. c.i.f. terms for shipment.

EPSOM SALT.—English make is now appearing on the market at prices rather below those quoted by the United

ERGOT.—Russian is easier at from 2s. 2d. to 2s. 4d. per lb. on spot, according to quality and seller. There fair quantity of Russian new-erop of good quality available on spot. New-crop Portuguese offered at 2s. 9d. and able on spot. New-cro Spanish at 2s, 3d. c.i.f.

EUCALYPTUS OIL.—With the approach of the principal consuming season and the smaller arrivals from Australia than usual, prospects are for higher prices eventually. spot stocks at the moment are, however, very fair, with 55 to 60 per cent. eucalyptol offering at 1s. 3d. per lb.

Fennel-seed sells slowly at 24s, per cwt.

FENUGREEK-SEED is firm, at 10s. 9d. to 11s. per cwt. for

good new-crop Morocco on the spot.

GAMBOGE.—As first-hand supplies have been cleared, dealers have been asking 16l, for fair Siam pipe. A new lot will probably be offered in sale next week. GENTIAN is scarce owing to scarcity of male labour avail-

able for digging; 32s. 6d. is quoted, landed terms.

Guaiacol Carb. is very scarce at from 29s. to 30s. per lb. HENBANE.—Good French leaves are offered at from 75s, to

Honey.-New-crop Californian in cases for August-September shipment is offered in quantity at 38s. per cwt., landed ex wharf London.

INSECT-FLOWERS.—Japanese are quoted on the spot at from 220s. to 230s. per cwt., and to arrive at from 140s. to 150s.

INSECT-POWDER.—Some large sales of foreign ground powder have been made on the spot lately at from 2s. to 2s. 4d. per lb.

IPECACUANHA.—The Amazon has brought 75 hales from Monte Video and 8 bales from Bahia to Liverpool.

Kola is still inquired for; holders of good Java ask 72d., and to arrive in about three weeks 6d. c.i.f. is quoted. Some will probably be offered next week.

LEMON OIL.—Offers of new-crop are being made, including one of a well-known brand at 4s. 6d. per lb. c.i.f.; old-crop is quoted 4s. c.i.f., and the spot value is 4s. 6d. for good brands.

LINSEED is slow of sale, but quotations are unchanged at 60s, per quarter for good clean quality.

LIQUORICE-ROOT.—Decorticated sticks from parcels now arriving have been sold at 62s. 6d. per cwt.

LITHIA CARBONATE is offered at from 5s. to 5s. 6d. per lb. LYCOPODIUM is on the list of exports prohibited from ussia, but licences can no doubt be obtained by responsible people.

MENTHOL.—Some spot sales of Suzuki have been made at 8s. 6d. per lb., being firmer; sellers for August-September shipment quote 8s. 6d. c.i.f.

MERCURIALS.—The situation is expected to ease when the American supplies become available. A limited quantity of calomel is offered at 6s, to 6s. 3d., and corrosive sublimate

at 5s. 6d. to 5s. 9d.

MILK-SUGAR.—Some of the stock of American has been disposed of, and for finest powder 72s. 6d. is asked.

Myrrh. Best Aden sorts still offer at 52s, and grains at 40s. per cwt.

Nux Vomea is more freely offered on spot, with fair bright seed obtainable at 18s. 6d. to 19s. per cwt.

Oils (Fixed). Linseed is firmer on the week, pipes on the spot closing at 25s. 6d. and barrels at 26s. 3d., forward 26s. to 27s., as to position. Cotton-seed is 6d. to 1s. cheaper at 26s. 9d. for crude in pipes, 30s. for pale refined in pipes, and 34s, to 35s, for sweet refined in barrels, all spot. Ceylon *Cacanut* is quiet but steady at 42s, to 43s, in hogsheads and 42s, to 43s, in pipes; Cochin is cheaper at 44s. neads and 428, to 408, in pipes; Cochin is cheaper at 448, to 478.; London pressed is firmer at 348, Colza is unaltered at 348, to 358, for ordinary brown, naked, on spot, and 368, to 388, for British refined in barrels. Lagos Palm is 318, spot, and 298, ex store Liverpool. Soya is firmer at 218, 6d, c.i.f. arrived in cases and 218, 6d, on passage. Hull (spot) is dearer at 258, per cwt. Castor is 378, 9d, for first pressing in barrels on spot and in Liverpool good seconds (clouds is general at 588, 737). Liverpool good seconds Calcutta is quoted at from 37d, to 4.d. per lb. from store.

Optim is unchanged at 23s, per lb. on the spot for good Turkey druggists' quality, and at from 17s. to 22s. per lb.

for Persian, according to test.

ORANGE-PEEL.—Sales of finest so-called Maltese strip have been made from first hands at 1s. 8d. per lb., an advance of 2d. on previous prices.

Oxalic Acid is very scarce, from  $11\frac{1}{2}d$ , to 1s, being wanted. PEPPER.—Early in the week a good business was done to Peper.—Early in the week a good business was done to arrive at higher prices, the sales including black Singapore for August-October shipment at  $5^{+}_{15}d$ . to  $5^{+}_{15}d$ . c.i.f. and buyers; there are spot buyers of Singapore basis fair, Tellicherry, and Lampong at  $5^{+}_{3}d$ . Sellers of Singapore as  $8^{+}_{3}d$ . for fair white, and  $9^{+}_{5}d$  for fair Muntok on spot, and to arrive Muntok for September-November and August-October highest less than  $10^{+}_{15}d$ . October shipment has been sold at 8\dd. c.i.f. and buyers.

PEPPERMINT OIL.—Efforts are still being made by interested parties in New York to depress the market in order to make favourable purchases in the West, but it is expected that the unfavourable weather conditions affect the crop this season, and consequently this will be reflected in the price. Meanwhile 7s, is quoted for finest brands of so-called Wayne County oil for autumn shipment, but buyers hold off.

POTASH PERMANGANATE is offered at the easier rate of 290s.

Potashes.—First Government brand Montreal are quoted at from 110s., and first American at 90s, per ewt, on the spot; supplies of the former appear to be in the hands of one firm only.

Pyrogallic Acid.—Crystals are offered at 8s. and resublimed at 8s. 6d. per lb.

QUICKSILVER is lower at from 161. 10s, to 161. 15s, per bottle for Spanish.

QUININE is firm, with sales from second-hands at from 18, 7½4 to 1s. 8d. per oz. for the usual Continental brands of sulphate, the latter being the price at the close.

SACCHARIN.—No supplies appear to be available from the usual sources for export. About 35s. per lb. is quoted for 550 from dealers' hands, with prices tending upwards.

SALICIN has been advanced by 5s. per lb. to 20s. per lb. for 1 cwt., 20s. 3d. for 28 lb., and 20s. 6d. for smaller lots, all net.

Salicylates are unchanged, acid powder offering 14s. 6d. to 15s. per lb.; sodium powder is 15s. to 15s. 6d., and erystals 16s. to 16s. 6d. per lb. Although fair arrivals are taking place, they are being absorbed. Buyers would, however, do well to exercise caution in committing themselves to purchases of any large quantity.

SALOL is quoted at from 23s. to 23s. 6d. per lb.

Santonin.—The principal controller announces an advance SANTONIN.—The principal controller announces an advance of 20s, per kilo, or 9s, per lb. This was foreshadowed in our issue of August 21. The current price is about 155s, to 160s, per lb. Santonin has been placed on the Russian list of prohibited exports by all frontiers, but no doubt permission would be accorded for shipments to allied

SENEGA.—Spot prices are from 2s. to 2s. 2d. per 15. net, and to arrive 1s. 9d. to 1s. 10d. e.i.f. is quoted.

Shellad has been in better demand at improved prices, TN on fair basis selling up to 64s, to 66s, per cwt. on spot; good TN is quoted 67s., pure E and O 68s., fine orange 78s, to 85s. AC Garnet is 64s, and G.A.L. 62s. Futures are dearer, the sales including October delivery at 66s. to 67s. 6d., and December at 67s. to 69s. 6d.

STRAMONIUM-LEAVES have been selling at from 60s. to 65s. per cwt. for good green.

SULPHONAL is offered at 24s. 6d. per lb.; supplies are quite

TANNIC ACID.—Leviss is offered at 4s. per lb.

Tartaric Acid is slightly easier at from 2s.  $1\frac{1}{2}d$ . to 2s. 2d.

TERPIN HYDRATE is offered in several quarters at 2s. 6d.

THYMOL.—The nominal value is 45s., but there are no offers except of trifling amounts.

TONKA-BEANS have been slow of sale for a lengthy period; approximate values are: Goo'd Angosturas, 5s.; good black Para, 2s.; and frosted Para, 2s. 6d. per lb.

TRIACETINE.—This comparatively new product is finding an automology as a superposition of the statement of the statem

extended use as a solvent among essential oil and essence makers. The value is about 6s. per lb.

Turpentine closes easier at 34s, 4½d. per cwt. for American on spot.

Valerium.—Belgian is obtainable at 95s, per cwt. Vanillim.—Maker's price for 100-per-cent, pure is still 33s.

WAX, JAPANESE.—Spot sales have been made at 50s. per cwt., being firm; to arrive 53s. e.i.f. has been paid.

#### Arrivals of Chemicals, Drugs, etc.

During the period August 25 to 31, inclusive, the following produce from the places mentioned in parentheses has arrived at the English ports stated. Goods in transit are not included. The figures denote packages where not specifically described:

To London. Acetic acid (Rotterdam) eks. 9 Acetone (N. York) dms. 42 Acetone oil (N. York) dns. 6 Agar-agar (Kobe) 45 Albumen (Clina) es. 454 Albumen (China) cs. 454
Almond oil (Marseilles) 45
Alocs (Mossel Bay) es. 30
Anisc oil, star (II. Kong) 220
Arachis oil (Bordeaux) eks. 65,
(Rotterdam) brs. 800
Argol (Barcelona) eks. 54,
(Naples) bgs. 406 Barium chloride (Genoa) brls.

Barytes (N. York) brls, 172 Barytes (N. York) brls, 172
Benzoin (Singapore) es, 9
Birdlime (Japan) es, 60
Bismuth ore (Sydney) eks, 9
Boric acid (N. York) brls, 250
Bromides (Boston) es, 422
Calcium carbide (Ronen) 200
Calcium citrate (Messina) eks, 38

Canary-seed (Seville) bgs. Camphor, ref. (Kobe) es. 250
(Caraway oil (Rotterdam) es. 24
(Caraway-seed (Holland) 116
(Carbon black (N. York) 200
(Cardamoms (Ceylon) pkgs. 117, (Tuticorin) 150 Casein (Charente) 200

Chemical products, drugs, etc.
(N. York) pkgs. 1,239, (Treport) pkgs. 39
Chloral hyd. (N. York) cs. 12,

Cinchona (Amsterdam) cs. Cinnamon and chips (Ceylon) 203, (Marseilles) 832 Cinnamon oil (Ceylon) es. 14 Citronella oil (Galle) dms. 166 Cochineal (L. Palmas) 13 Coconut oil (Colombo) pkgs. 75, (Galle) cks. 111 'Cream of tartar (N. York) cks. 20

Croton-seed (Ceylon) 25 Dental cream (N. York) es. 800 Dextrin (Rotterdam) 100 Dioxogen (N. York) es. 160 Dioxogen (N. York) cs. 160 Divi-divi (Madras) 912 Dragon's-blood (Singapore) cs.

8
Drugs (Paris) cs. 26
Epsom salt (N. York) brls. 30
Essential oils (Marseilles) cs.
4, pkgs. 36, (Barcelona) dms.
3. (Dieppe) pkgs. 34, (Messina) pkgs. 68, (Malaga) dms. 3

Formaldehyde (N. York) brls. Formic acid (Rotterdam) es.

169 Fusel oil (Sydney) hds. 11 Glucose (N. York) 2,760 Glycerin (Amsterdam) cs. 10, Gum acacia (P. Sudan) bgs.

2,453

Gum copal (Singapore) bkts. 390, (Suez) 64

Gum damar (Singapore) bkts. Gum kauri (Auckland) 1,018

Gums, undescribed (Bordeaux) pkgs. 42, (Sydney) bgs. 132, (Marseilles) cks. 41, (Lisbon)

(Marsellies) pkgs. 127
Herbs (Rotterdam) bls. 24
Hexamine (N. York) dms. 27
Honey (Hawre) brls. {
(Dieppe) cks. 60
Indigo (Calentta) pkgs. 93
Wola (Colombo) 60

Lemon oil (Palermo) es. 3, see also Ess. oils. Linseed (B. Ayres) bgs. 26,366, (Suez) 601, (Calcutta) bgs. 12,631

Listerine (N. York) pkgs. 581 Lithopone (Rotterdam) eks. 173 Magnes. earb. (Amsterdam) 200 Medicines (Boston) cs. 155 Mineral waters (France)

2,270 Mineral white (Bordeaux) bgs.

Mint oil (Kobe) es. 125 Naphthaline (Rotterdam) cks.

Nutinegs (Singapore, etc.) cs.

Nux vomica (Marseilles) bgs.

Olive oil (Bordeaux) pkgs. 6 (Marseilles) eks. 39, brls. 10 es. 114, (Malaga) brls. 311 Opium (Marseilles) es. 32 es. 114, (Malaga) brls. 31 Opium (Marseilles) es. 32 Orange oil (Montreal) es. 10 Orehella weed (Lisbon) 51
Papain (Ceylon) cs. 16
Perfumery (Amsterdam) cs. 11 etro, emulsion (Boston) bxs. 6,939

Phosphoric acid (N. York) brls, 12

Potash carb. (N. York) cks. 10 Potash, caustic (stick) (Uddevalla) es. 30

valla) cs. 39
Potash iodide (Kohe) cs. 10
Potash salts (Uddevala) eks. 8
Quicksilver (Lisbon) bott. 6
Rapesced (Karachi) bgs. 4,766,
(Suez) 1,669

Rhubarb (China) cs. 92 Rhinbarb (China) cs. 92
Roots, barks, herbs, etc.
(Rotterdani) bgs. 306, (N.
York) pkgs. 20, leaves (N.
York) bgs. 12. (Marseilles)
bls. 12, roots (N. York) bls.
20, (Marseilles) bls. 20
Rose-water (Marseilles) brls. 10
Resin (Rordenux) obs. 979

Rosin (Bordeaux) eks. 9 (Spain) 415, (U.S.A.) 1,600 Saecharin (Dieppe) es.

Sacenarii (Dieppe) cs. 25, (Rotterdam) cs. 5
Saltpetre (Calentta) 491
Sarsaparilla (N. York) bls. 16
Seedlae (Calentta) 425
Senna (P. Sudan) cs. 14
Shellae (Havre) 91, (Calentta) 192, hutton 25
Soda hypo. (N. York) kgs. 1.120

Soy (H. Kong) eks. 100 Soya-bean oil (China) brls. 500,

Stavesaere (Naples) bls. 10 Stavesacre (Naples) bls, 10 Sulphur (Girgenti) tons 1,322 Tartar (Barcelona) brls, 99 Tartaric acid (Naples) brls, 271, (N. York) brls, 20 Tolnol (N. York) dms, 39 Turmeric (Hankow) 24 Turpentine (Seville) dms, 20, (U.S.A.) brls, 10,700 Vanilla (Marseilles) es, 11 hrls.

Vanilla (Marseilles) es. 11

Vanillin (N. York) crts, 8 Vermin - destroyer (N. York) pkgs, 1,050

pkgs. 1,050
Wax, bees' (Havre) 9, (Shanghai) es. 28, bls. 19. (Rotterdam) bls. 34, (Marseilles) bls. 903, (Calcutta) es. 25
Zine oxide (Rotterdam) 200, (N. York) 1,000

To Liverpool.
Acetate of lime (Montreal) bgs. 2,004, (N. York) 338 Albumen (Shanghai) es. 57 Alcohol (N. News, etc.) dms. 89 Antimony ore (B. Ayres) bgs.

Balsams (Maranham) brls. 7 Barytes (Barcelona) 800 Borax (B. Ayres) bgs. 1,202 Borie acid (Leghorn) cks. 16 Casein (St. Nazaire) 66 Chemical products (N. York)

dms. 60 Coconut oil (Sydney) eks. 800 Cod-liver oil (St. John's, N.F.) eks. 585, brls. 5

Cod oil (St. John's, N.F.) cks. 485

Cream of tartar (Barcelona) eks. 5 Divi-divi (Curação) 1,307

Drugs, etc. (Havre) pkgs. 99, (N. York) es. 171 Essential oils (Catania) cs. 5

Formaldchyde (N. York) Glucose (N. York) 60

lycerin (Bordeaux) cks. 40, (Barcelona) dms, 24 Glycerin

Gum copal (Singapore) bkts. 51 Honey (St. Nazaire) eks. 10, (Curação) brls. 119

Ipecacuanha (M. Video) 75. (Bahia) 8 Jaborandi-leaves (Maranham) bls. 19

Lithopone (Rotterdam) 60, (N.

Lithopone (Rotterdam) 60, (N. York) 280
Liquorice-juice (Naples) cs. 42
Medicines (Boston) cs. 24, (Montreal) cs. 35
Mineral waters (Havre) 115
Olive oil (Bordeaux) cs. 332, (Leghorn) pkgs. 221, (Naples) brls. 25

brls. 25 Palm - kern bgs. 50,528 kernels (W.C. Africa) Calm oil (W.C. Africa) eks.

Pepper (Singapore) 260 Perfumery (Havre) es. 112
Potashes (Montreal) brls. 44
Quebracho ext. (B. Ayres) bgs. 9,800

Rapeseed (Bombay) 4,308 Rosin (Bordeaux) cks. Soy (H. Kong) cs. 100 Soya-bean oil (Kobe) cs. Sulphur (Catania) pkgs. 2 Sumach (Palermo) bgs. 500 Tartar (Bordeaux) eks. 18 Tartarie acid (Genoa) brls. 20, (Naples) brls. 266

(Naples) brls. 266
Wax, carnauba. (Parnahyba)
bgs. 253, (Ccara) 40
Zine oxide (N. York) 500
To Manchester.
Acetic acid (N. York) brls. 139
Arachis oil (Rotterdam) cks. 60
Dextrin (N. York) 440
Expendicated Philodal), brls. Formaldehyde (Philadel, A. V.)

Formaldehyde (Philadel.) brls. 64, (N. York) pkgs. 155
Gum acacia (Alexandria) bgs. Mineral white (Bergen) 1,100

Pharm. products (Ronen) cs. 26 Potashes (Montreal) brls. 9 Rosin (U.S.A.) brls. 3,950 Soda, caustic (N. York) dms.

Soda chlorate (Philadel.) kgs.

Soda phosphate (N. York) 62 Soda sulphide (N. York) brls. 139 Tartar emetic (N. York) 35

Turpentine (U.S.A.) brls. 4,400

To Folkestone.—Perfumery (Boulogne) pkgs. 290, perfumed spirits (Calais) es. 7. To Goole.—Magnesite (Rotterdam) bgs. 125. To Grimsby.—Chemicals (Dieppe) es. 18, dyes (Dieppe) eks. 150, hebbs (Dieppe) bls. 11. To Hall.—Ammonia (Drontheim) es. 160, ammon. perchlor. (Drontheim) es. 140, caraway seed (Holland) 40. castor-seed (Bonbay) 15,122, chemical prod. (N. York) brls. 110, dextrin (N. York) 50, (Holland) 50, glycerin (Amsterdam) dms. 105, gums, undescribed (W.C. Africa) pkgs. 15,061, linseed (B. Ayres) bgs. 19,465, (Bombay) 2,460, palm-kernels (W.C. Africa) pkgs. 71,713, palm oil (W.C. Africa) eks. 650, rapeseed (B. Ayres) bgs. 15,918, (Bombay) 1,846, zine oxide (N. York) 400.

#### Heavy Chemicals.

Manchester, September 1. During the past week the demand for heavy chemicals has shown some improvement, although there is not the same snown some improvement, although there is not the same pressure for deliveries as there was a short time ago. Merchants and consumers, however, complain strongly of railway delays, and there is great need for improvement in this respect. Caustic soda has been in better inquiry, but stocks are in small compass. For home trade 70 to 72 per cent. is quoted at from 14l. 5s. to 14l. 10s., and 60 to 62 per cent. 13l. 10s. to 13l. 15s. Bleaching-powder continues more or less nominal at, say, from 10l. to 10l. 10s. per ton on rails. Bicarbonate of soda is steady at 5l. per ton, and soda crystals are unchanged at 42s, 6d. to 45s., both on rails at works. Ammonia alkali is 2l. 17s, 6d. to 3l, per ton in bags on rails. Lump borax 23l, per ton. Chlorate of potash is 1s. 3d. to 1s. 6d. per lb., as to quality. Permanganate of potash is easier at 290l. to 295l, per ton. Yellow prussiate is nominal. Cream of tartar and seids are on the easier side. White powdered arsenic is firm. Glycerin firm at late rates, with deliveries on a small scale only. Sulphate of copper the turn higher at from 20l. 17s. 6d. to 27l. 10s. per ton Manchester. Carbolic acid and benzols are nominal. Sulphate of ammonia is quiet at 14l, 5s. per ton on rails Manchester, and 5s. more forward.

Continental Drug and Chemical Markets. pressure for deliveries as there was a short time ago.

Continental Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets under date up to August 14 and 15:

ACETANILIDE has advanced to about m.300 per 100 kilos. AGAR-AGAR is very firm, and the remaining stocks are only small. First strip is quoted at from m.10 to m.10.25 per

AMMON. CARB.—Small quantities are still obtainable, but only for October or November delivery, at from m.250 to m.260 per 100 kilos.

Benzoin.—Quiet. Finest almondy Sumatra is quoted at from m.400 to m.420, good almondy m.335 to m.330, and green, suitable for tinet. benz. co., m.300. Good seconds Palembang has been sold at from m.125 to m.140.

BISMUTH PREPS.—The price of the metal has remained

unchanged. As the materials required for the manufacture of the bismuth salts have so much advanced in price, the manufacturers have been obliged to advance the values from m.2 to m.5 per kilo. Prices are from m.26 to m.23 for subnitrate, from m.17 to m.19 for salicylate, from m.25 to m.27 for subsalicylate, and from m.18 to m.20 for subgallate.

Bromine.—A new bromine convention has been founded in Leopoldshall, under the name of Neue Deutsche Bromkonvention G.m.b.H., to which belong practically the same

firms as to the former Convention.

Cantharides are easier, in consequence of large quantities being offered. Good are obtainable at m.27.5 per kilo.

CASCARA SAGRADA.—Demand has increased. The price in

Hamburg is m.175 per 100 kilos.

CEVADILLA-SEED has been sold in fair quantities at m.175

Chloroform.—Though the output of the makers exceeds the demand, prices have been advanced, but they are still not regarded as profitable, and a further advance is ex-pected. The actual price is from m.150 to m.170 per 100

CITRIC ACID is easier, as large quantities are offered, prompt delivery being obtainable at m.11 per kilo., and forward m.10; priees are expected to become lower still.

COAL-TAR PRODUCTS.—New maximum prices have been fixed for benzol, toluol, etc. Beginning with August 15, these prices (per 100 kilos.) are: Pure toluol, m.45; benzol, solvent naphtha I, and II., and xylol, m.42; mixtures of 70 parts of benzol and 30 parts of spirit, m.67; mixtures of 25 parts of benzol and 75 parts of spirit, m.74.

CONDURANGO is quiet and without business.

CONDURANGO is quiet and without business.

ELEMI is firmer, finest pale having been sold at m.115; fair pale is quoted m.100 to m.108. Demand has considerably increased, and on August 7 Hamburg quoted m.125.

LINSEED OIL.—It is impossible to get an opinion about

the condition of the market. There is such an abundance of linseed and linseed oil in neutral countries that the price in Holland is at present half of that at the beginning of June With regard to the extensive oil-works in Hol-land, the "Drogisten Zeitung" wonders how long this country will tolerate England thwarting its industry. The demand for linseed oil in Germany has been of no consequence during the last few weeks. Persons who have got linseed oil are rather unwilling to sell it. The stocks are so large, however, that scarcity need not be feared. Prices vary between m.220 and m.205 per 100 kilos.

Mastich has been active, with sales up to m.850 to m.900

per 100 kilos.

Menthol.—Demand has fallen off considerably, with ready

sellers at m.31.

Milk-sugar.—The condition of the makers of milk-sugar has never been such a difficult one as now. Foot-and-mouth disease is prevalent among the cattle all over Germany; fodder is very scarce, as is fodder-cake from foreign countries. Skim milk is used as food for the cattle again, so that nearly nothing is left for the milk-sugar problems. makers. It is also due to these circumstances that the prices of cheese and casein are so extremely high. Makers of milk-sugar have only very moderately advanced the price, notwithstanding these unfavourable conditions; of mik-sugar have only very moderately advanced the price, notwithstanding these unfavourable conditions; from m.148 to m.150 per 100 kilos, is quoted.

Potash Permang., which was advanced by 10 per cent. until now, has been advanced by 25 per cent. by the

Convention.

SILVER NITRATE is only manufactured in quantities which are required for immediate use. The price of the metal has not yet changed, but in consequence of the makers difficulties the price has advanced to from m.66 to m.68 per

Soda Hypo. is much higher, at from m.30 to m.33 per

100 kilos.

TARTARIC ACID is decidedly easier: second-hand stocks are offered, and also new imports from foreign countries, so that the prices are expected to become lower. It is offered at m.8.25 for crystals and m.8.75 per kilo. for provided powdered.

THYMOL is quoted at m.65 per kilo.

TURPENTINE OIL.—American has become very scarce. In the daily papers larger quantities are occasionally offered, but it is difficult to know whether these stocks really exist; the nominal value is from m.300 to m.330 per 100 kilos. Swedish is quoted at from m.170 to m.185. Substitutes are in active demand, and at from m.150 to m.175 per 100 kilos. kilos.



### Memoranda for Correspondents.

Communications should be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed, even when the writers use a "nom de plume."

Complete and systematic indexes of the "C. & D." are presented with the last issues in June and December each year. Every subject dealt with week by week is included, and correspondents are advised to refer to these and the "C. & D. Diary" before asking the Editor for information, so as to save time.

Sheep-dipping.

SIR,-We enclose card we send to farmers arranging their sheep-dipping, as we think this plan will be useful to "Agricola" and other country chemists.

Yours respectfully,

Sheep-dippers. (212/9.) [The enclosure is a posteard with the following wording:

We hope to send to dip your sheep on .....

weather in the meantime permitting.

Sheep should not be dipped when suffering from scour or wounds, or otherwise out of health, nor when heated or thirsty. They should be taken off food and allowed

to rest quietly near the bath before dipping.

Wet weather and all extremes of heat and cold should be avoided. Care should be taken that the sheep do not drink any of the dip. We do not accept any responsibility for any loss or damage caused through dipping.

It is important to note that disclaiming responsibility does not rid one of it, hence "Agricola" wants all those in the drug-trade who undertake sheep-dipping to combine together for mutual protection. We shall be glad if those who have not already written will inform us if they are willing to consider the matter with "Agricola."—Editor C. & D.

Chemists' Liability to Claim.

SIR,—I was pleased to see that the subject of liability in respect to dipping of sheep has been dealt with in such an explicit manner by "Agricola," and as my firm dip several thousands of sheep per annum I am in a position to endorse his remarks, but was surprised to find that the Chemists' Defence Association offer him no assistance. it not possible for them to give rates for the various difficulties in which a county chemist finds himself at times in the same way as an insurance company (and that is what we look upon the C.D.A. as) give you rates for praetically all kinds of risks? This course would, I think, strengthen them, as I am well aware that plenty of county ehemists say that it is all right for the chemist in the big towns who gets plenty of dispensing, etc., but it would be of rought to up as their risks are not met with because be of no use to us as their risks are not met with, because what is a risk in one district is perhaps not known in another, hence the need of various classes and rates of insurance. I shall be glad to fall in with "Agricola's" scheme if he can get others to assist to the mutual advantage of us all.

Peterbore with

Peterborough. J. G. STURTON.

SIR,—The letter of "Agricola" in last week's CHEMIST AND DRUGGIST is very interesting as illustrating one only of the many liabilities which beset the country chemist. "Agricola's" experience is not unique, for I had trouble of discount of this kind some years ago, in which thirty or forty sheep died after dipping. But there was this distinct difference between the ease stated by "Agrieola" and my own, in the fact that "his own man acted as dipper," while in my ease I merely sold the dip, approved by the Board of Agriculture and properly labelled, and the farmer acted as his own dipper. There is no manner of doubt that what his own dipper. There is no manner of doubt that what caused the trouble in my case was that there was a shower directly after dipping and an intensely hot sun. The

shower washed some of the undissolved dip down through the fleece to the skin, the heat acted on this concentrated alip and caused irritation and absorption of arsenic—result, death. There was no record of over-heating by hurried driving. So by merely selling sheep-dip the chemist incurs a heavy liability, almost unbearable, and has to pay or

Take another case I know of. A customer buys some phosphorus rat poison, puts it in the tin on a shelf over the pigsty, the pigs knock it down and eat it, and some dienorther chance to be "shot at." Take another: A chemist sells some "salts for poultry." He gives Glauber salts, the poultry die say, from roup or anything but the saltsresult, a claim for damages. Again: A chemist sells some worm-pills for dog. The dog dies from "stoppage" result, a claim to be paid or fought. All these show the pitfalls awaiting us, and my object in writing to-day is to pitfalls awaiting us, and my object in writing to-day is to ask every country chemist to bring his influence to bear upon the Chemists' Defence Association with the view of inducing them (though it is war-time) to establish a Veterinary Section. There must be hundreds of chemists who are daily selling sheep-dip, horse and cattle drinks, and medicines for various animals, but I question whether many are aware that, even though they may be members of that valuable Association, they are totally unprotected against claims, bogus or otherwise, for medicines for animals. I have no doubt the Association would, in any case, give have no doubt the Association would, in any case, give useful advice to their members, as I gratefully acknowledge in my own case, but we need more than advice; we need protection. And most of us have lived long enough to know protection. And most of us have fived long chough to know that while many a customer with a claim will cheerfully make it against an individual chemist, he would think twice before he made one if he knew he would have to fight a Defence Association. It is not so much that I think the Association would have to pay much money out in damages as the fact that it would prevent claims being brought, for they are nearly all bogus ones, while a single individual chemist would rather pay than incur possible heavy law-costs. "Agricola's" idea of a separate fund heavy law-costs. "Agricola's idea of a separate fund is very good, but such a fund would need administering by very efficient machinery, or it might do more harm than good by getting possible binding law decisions which might good by getting possible binding law decisions which might make things more unfavourable than they are. But this very efficient machinery is ready, standing ready, if only it could be induced to take this matter up, in the shape of the Chemists' Defence Association. We should all have every confidence that they would select just the proper cases to be fought, and would avoid fighting any that might bring about "bad law" decisions. So, I say, let every chemist who is interested write to Mr. Johnston, of the Chemists' Defence Association, Temple Avenue, London, E.C., stating his wish that a Veterinary Section should be formed and stating his willingness to join such a Section. formed and stating his willingness to join such a Section. Now, Mr. Country Chemist, write to-day—a posteard will do—write before you forget; don't leave it to the other men to do, for if a man will not take some trouble to help We to do, for if a man will not take some trouble to help limself he can hardly expect others to do it for him. A Veterinary Section was "nearly formed" about this time last year, but was eventually held over owing to the war; but I have no doubt the directors would reconsider the matter if a good number of chemists write to the office.

Please, Mr. Country Chemist, drop Mr. Johnston a post-card to-day.

Your sincerely,

Aggretia No. 2. (E19/95)

AGRICOLA No. 2, (E19/95.)

Dispensing for Dependants.

SIR.—The only drawback to the otherwise admirable letter signed "Equality of Sacrifice" is its unpracticalness. It would pass the wit of man to compute the value of pharmaservices up and down the country in connection with the above scheme. It really cannot be helped, and is in the very nature of things inevitable, that "high-class" pharmacists find themselves doing less than their brothers who practise in working-class districts. The former can really do no more than signify their willingness to dispense gratuitously for dependants—and it is certain that the majority of them are doing no less. Your correspondent's suggestion that well-to-do pharmacists should make donations on behalf of their poorer brethren is much worse than unpractical—it is invidious. Such a step would be scorned by any self-respecting chemist, however poor and hard-worked, however surrounded by a working-class *clientele*. Rather than that I would suggest that the few prescriptions dispensed in high-class pharmacies receive no remuneration whatever; let the fortunate proprietor intimate his desire to receive no payment whatsoever and so bring himself more into line with his confrere who dispenses free of charge more largely. And I would like to add that this opportunity—small as it is—of "doing a bit" in war-time is not to be deprecated, but encouraged. Better do this than nothing. The work lies ready to hand and (as Carlyle whatever; let the fortunate proprietor intimate his desire taught) should be undertaken with alacrity. Whatever can I

be the good of negative criticisms, telling pharmacists "how not to be useful"? What is wanted is fresh suggestion for added usefulness, and a spirit of emulation within our ranks making for national service. The "working-class chemist" can safely be left to do his duty uncomplainingly, nor need we fear that the "moneyed end of the trade" will be found wanting. One word in conclusion. This matter is emulatically not "guite prosait." clusion. This matter is emphatically not "quite prosaic and practical." On the contrary, it is largely coloured with emotion; is conditioned by no rules of arithmetic or laws of economics, but by feelings deeply rooted and widely Faithfully yours. spread. R. CECIL OWEN. Chester.

[The initial complaint was that many people are getting free treatment under the scheme who are as able to pay for it as they are able to buy whisky as a beverage. This fact should not be overlooked in any reorganisation of the scheme.—Editor C, & D.]

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

C, & D. = Hclp and Advice.

"Please find money-order for the insignificant amount of 10s, for another twelve months' 'help and advice.'"—

Army Dispensers.

J. C. T. B. (186/78) writes: "Those ehemists who join the Army as dispensers should see that the enlistment-paper distinctly states that the applicant enlists (1) as a compounder, and (2) for special service." This, he this would prevent a good deal of disappointment afterwards.

Lactic-acid Hair-lotion.

"I note in your reply to 'R. B. M.' (186/69) you say you have no experience of lactic acid in hair-lotions. I enclose copy of a prescription I have dispensed for some time for customer, with excellent results.5 -A Wallace Sanders (Chard).

Ac. lactic. ... Ol. ricini ... 3ij. ... 3iv. M. Ol, ricini ... ... Spt vini rect, ad ... ...

To be applied daily.

Liquid Paraffin,

Liquid Paraffin.

"While I fully agree with the points made by both of your contributors, 'R. E. W.' (C. & D., July 17, p. 67) and 'C. C.' (C. & D., July 24, p. 61), permit me to point out that the observations of 'C. C.' are explained by the fact, which is generally lost sight of, that the thinner Russian liquid paraffins B.P. should be used only externally, and that for internal purposes the heavier-gravity B.P. oils (880 to 890) should be used. Only these latter are free from the irritating effects produced by the lower-gravity oils. All the American substitutes I have come across are similar, as far as body is concerned, to the low specific gravity Russian oils, and hence they produce similar effects when used internally."—R. Dobbyn (185/16).

Jay Macksims (as he writes. them).

Self-imposed Burdens.
(1) Sheep dipping instead of selling dip to pettifogging little farmers in England, where the shepherd is the "odd man of all work."

(2) Even Scotch druggists who deal with real farmers and

real shepherds don't run the risk of dipping.

(3) Futile and footling calculations about stock solutions totally opposed to the work-a-day, custom of shops, dispensaries, hospitals, or surgeries.

(4) Weights and measures all need revising (but not Germanising). Glasgow has rejected the 437.5 oz., yet some men would prefer another burden rather than tell a public analyst that the 480 oz. is the ealeulating eustom (in time it will be 500).

(5) The N.I. has been a loss so far, because of the waste induced by two years' pigheaded objection to stock-mixtures, yet we use stock pills, ointments, tablets, and mist. sennæ co. B.P.

(6) Committees overloaded with men comfortably off, who

do little and want less Insurance work.

(7) Result: Discounting and emergency settlements, which will eease when Committees actually contain only the men who are doing the actual work.

Hypochlorous-acid Solution for Wounds.

A Mayfair Chemist (211/46) writes to say that he has received a prescription for "0.5 hypochlorous acid in 1 pint," and could not obtain it from any wholesale house. The solution is evidently intended for wounds, and he asks if there is any convenient way for making it. [We are

surprised that any wholesale house has not been able to satisfy this demand. There is at present a strong movement in Army medical circles in favour of the use of hypochlorous-acid solution for the treatment of wounds, and our ssue of July 31 contained, on p. 144, the first published fermulæ of preparations for obtaining solutions of the requisite strength. In issues of the  $\ell$ . & D, since further paragraphs have been printed in regard to the solution, and in this issue (p. 52) we print an abstract of an article by Dr. H. B. Dakin, giving the methods which he recom-mends for preparing a similar solution. These recent in-quiries corroborate traditional knowledge of the utility of chlorinated lime as a disinfectant and germicide, which knowledge was placed on modern scientific lines by that erst-while pharmacist, Dr. John C. Thresh, medical officer of health for Chelmsford, who advocated more than ten years ago the use of chlorinated lime in the sterilisation of drinking-water. German army authorities have recently adopted sodium hypochlorite as being the best for water-sterilisation purposes I. sterilisation purposes.]

#### Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to compounding difficulties. We welcome fresh problems and invite the co-operation and correspondence of dispensers in their elucidation.

#### The Price of a Mixture.

SIR,—What should be the price of the following mixture in the present circumstances of enhanced prices of drugs? My customer states that she paid 1s. 3d. for it this month at an historic Edinburgh pharmacy. Can it be that there are philanthropists still in the drug-trade?-

			C. P.	. (192/21.)
	Yours	cord	lially.	
Aq. ad				ξvj.
Tr. chlorof, co.				zij.
Caffein, citr.				5 j.
Phenazoni				5ij.
Boun broin,				51188.

#### Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1915, beginning on page 405.

- F. E. C. (211/59).—"Dental Surgery" is a description which any person may use. See C. & D. Diary, p. 429.
- H, (206/41).—Soluble oxalates require to be labelled "Poisonous," and with the name and address of the seller: but the sale is not, in Great Britain, confined to registered chemists. In Ireland they are statutory poisons.
- W. H. E. (213/38).—We presume that what you want to know is whether or not the sale of barium chloride is restricted by the Poisons and Pharmacy Acts. It is not, neither being a scheduled poison nor a statutory poisonous substance.

Bang (211/14).—A pharmacy-manager who helps himself to any goods which are the property of his employers (such as articles of food for his own consumption) without paying for them, or without his employers' permission, lays himself open to prosecution for theft. There is no custom in the drug-trade, wholesale or retail, which would support the contention that managers may use their employers' tea and sugar without payment.

Chem. (214/31).—The assistant who has left you without notice has acted illegally. In such cases County Court judges are at present awarding employers damages equal to at least the wages for the term of notice required by agreement or the custom of the trade. A month is the custom in the English retail drug-trade. You can sue for money lent, but be sure before taking action that you can prove your case by evidence. Before taking legal action submit a claim to your late employé for the salary equivalent to notice, the amount of any damage sustained, and the other matter.

J. A. B. (209/22).—The Immature Spirits Act does not in the slightest affect the use by retail pharmacists of rectified spirit, or the sale of it by them as permitted by the oldestablished concession that not more than 8 oz. may be sold to doctors for scientific purposes. The use of a stockbook is only necessary when the pharmacist desires to apply to the Revenue authorities for a rebate of the 1s. 6d. per proof gal. imposed upon spirits which have not been warehoused for the stipulated period. Permits for the purchase of the spirit in quantity from wholesalers are obtainable from Excise officers.

Ronald (212/66) says: "A has purchased a business from B. On the facia of shop B's name appears. On the door there is a plate bearing name of C, who owned the business prior to B. Can A trade under name of B or C without asking their consent, or would consent be necessary in case of C?" [Seeing that A is continuing a business which was carried on by B and C at the same address, their consent must be obtained to the continued use of their names in that connection, as otherwise A may damage B and C.] "Ronald" also asks: Can a registered pharmacist owning a business, but not trading under his own name, use the title "pharmacist" in connection with that business, thus "Blank & Co., pharmacists"?—[Yes.]

J. D. (E28/15).—You are correct in your surmise that any person may use a voided trade-mark, such as "Aspirin," to describe a substance of the same composition as the article to which the trade-mark was originally applied. Your question as to whether or not a chemist is entitled to use such equivalent when an article is prescribed by a doctor under the voided name is not on all-fours with the first question, although the distinction is fine and described. first question, although the distinction is fine and depends upon the knowledge of the prescriber; in the case of Insurance prescriptions there should, however, be no doubt about the matter, as the dispenser can, by communication with the doctor and explanation of the facts, ascertain from him whether or not he intends original aspirin, if obtainable, or acetosalicylic acid.

Duty (211/29).—The fact that a person is a registered student of the Pharmaceutical Society of Great Britain does not entitle him to sell known, admitted, and approved remedies unstamped. The registration as an apprentice is not evidence that a person has served a regular apprenticeship. You will find all the information that you require in the C. & D. Diary, 1915. Read particularly the paragraph entitled "Chemists" (p. 418), and the other paragraphs referred to therein. Partnership with a registered about the world not entitled a paragraphs. graphs referred to therein. Partnership with a registered chemist would not entitle a non-exempted person to exercise individually the right to sell known, admitted, and approved remedies unstamped. Disclosure by itself does not ensure exemption from stamp-duty; it is merely a condition which has to be fulfilled by the persons who enjoy the exemptions of the 1812 Act—viz., (1) surgeons, (2) apothecaries, (3) chemists and druggists, (4) limited companies carrying on business in accordance with the Poisons and Pharmacy Act, 1908, and (5) any person who has served an indentured regular apprenticeship to (1), (2), or (3). The last is the ruling of the English High Court of Justice.

M. P. S. (212/52) asks, if he can continue to give re-

M. P. S. (212/52) asks if he can continue to give a special discount to nurses on all goods not P.A.T.A. or petents without infringing the Prevention of Corruption Act. [Generally speaking, yes, it being well recognised in the drug-trade that purchases of medicines and surgical appliances by nurses are supplied at less than the customary retail price, but it must not be forgotten that nurses are retail price, but it must not be forgotten that nurses are agents for patients, and any inducement held out to them by a retail chemist to purchase from him the requirements of the patient may bring the chemist within the purview of the Act, the specific wording of which is: "If any agent corruptly accepts or obtains, or agrees to accept or attempts to obtain, from any person, for himself or for any other person, any gift or consideration as an inducement or reward for doing or forbearing to do, or for having, after the passing of this Act, done, or forborne to do, any act in relation to his principal's affairs or husiness do, any act in relation to his principal's affairs or business, or for showing or forbearing to show favour or disfavour to any person in relation to his principal's affairs or business shall be liable to the penalties of the Act!" The offence is also committed by any person who corruptly gives or agrees to give the consideration referred to.]

#### Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas of them. When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, but give the reference to the issues in which the information may be found. If querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

E. E. R. (202/48).—A little aniline violet dusted upon coins leaves a stain upon the hands of persons who afterwards handle the money. The method is used for detecting pilfering.

G. C. (201/12).—TABLET-MAKING.—Wood's "Tablet-manufacture" (Lippincott, 7s. 6d.) is the best book on this subject.

Canis (201/36).—Killing Dogs and Cats.—There are two kinds of lethal boxes figured in "Veterinary Counter-practice" which would answer your purpose.

Chemicus (213/19). Ung. Ichthyol. (Cardiff Pharmaeopœia):

Paraffin, mollis ... ... gr. xlviij.

J. B. (206/43).—TREATMENT OF NEURITIS.—This is notoriously a tedious process, but the method indicated in the C. & D. August 21, p. 49, embodies the most modern practice.

#### $E.\ D.\ K.\ (208/14).$ —Self-raising Flour:

Sodium bicarbonate ... ... 8 oz. ... 18 oz. ... 1 ew 8 oz. Cream of tartar ... 1 ewt.

Mix the two dry salts with a small quantity of the flour, and, having sifted the mixture, add to the bulk of the flour and pass the whole through a sieve.

- J. H. F. (212/28). LIQUID PARAFFIN can be absorbed by casein or similar absorbent to form a solid, but it is better to start with a pure vaseline when a solid form of paraffin is required for administration medicinally. Mixed with casein, sugar, colouring-matter, and flavouring-agents, a palatable confection is readily produced with vaseline.
- $P.\ J.\ R.\ (197.52)$ .—The sample of Healing-ointment you send is made of lead plaster (5), petroleum-jelly (10), and carbolic acid ( $\frac{1}{2}$ ). The quantities given in parentheses are the approximate proportions of the ingredients.
- D. A. B. (195/34).—CRICKETS IN WALL,—The method employed for destroying crickets or similar noisy insects in walls is to inject ammonia into the erevices of the mortar. The success of the process depends upon the exactness with which the insects are located, so that an endeavour should be made by listening to ascertain the best positions for the injections.
- C. (196/37).—Dubbin.—The following represents the sample you send of German-made dubbin:

Fish or sperm oil ... ... 10 parts Beef suct ... ... Wool-fat, crude ... 5 parts 5 parts

Melt together, and colour with a small quantity of soot previously rubbed to a smooth cream with a small quantity of fish oil.

Rad. Rhri (197/71).—Magic Mirrors.—The figures on "magie" mirors, which become visible on breathing upon the glass, are composed of soap. A strong solution of soap (aqueous or spirituous) is used as the "ink." In the case of the advertisemnt mirror to which you refer, a rubber stamp is employed, and the soap solution used for stamping

Sperum (200/39).—The only advice possible in the ease you mention is for the patient to discipline himself, avoid sexual excitement as much as possible, and lead a hard-working life, with spare diet. Potassium bromide 5ss. may be tried at night.

Veritus (211/42). You are apparently unaware of the fact that MENINGITIS is an exceedingly dangerous affection of the cerebral and spinal meninges, and that its diagnosis and treatment should not be undertaken by any person except a registered medical practitioner. We suspect from the context of your question, however, that you mean laryngitis; if so, what kind? There are several, and the treatment differs.

Lim (210/19).—EMPLASTRUM FODICATORIUM PARACELSI was made by an apotheker of Robrbach, named Neubeck. Hager states that 20 grams of the plaster contains 8 parts of camphorated brown plaster, 6 parts of resin cerate, 3 parts of turpentine, and 3 parts of olive oil.

Bang (211/14).—(1) CLEANING BEER-PIPES.—Caustic soda is used to make a solution with which the pipes of beer-engines are cleaned. (2) Peroxide of hydrogen is decomposed or decomposes most colouring-matters and flavours, and should on that account be sold per se. (3) COUGH-MIXTURES containing morphine should not be given to young children. The age-limit of fifteen is a good one.

Garage (199/34).—Dietary.—We are unable to indicate the books in which the various dietaries to which you refer are put forth by the authors. The following modern works on dietetics will, however, help you, as they contain informa-tion regarding special diets employed in different diseases: Einhorn's "Lectures on Dieteties" (Lewis, 4s.); Frieden-wald and Ruhrih's "Diet in Health and Disease" (Saunders, 18s.); Tibbles' "Dieteties, or Food in Health and Disease" (Baillière, 12s. 6d.).

Enquirans (212/17).—REMOVING LIME-INCRUSTATION.—The deposit of lime salts in a copper vessel can be removed chemically by means of aqueous solution of hydroehloric acid. Copper is slightly soluble in dilute hydroehloric acid, but so soon as the lime salts are dissolved the acid solution should be run off and replaced by clean water.

- J. A. A. (99/66).—Pulghera Oil is eureas oil, or purging-J. A. A. (99/00).—ITLIGHER OIL is cureas oil, or purging-nut oil (Huile de pulghère or de purghère), obtained from the seeds of Jatropha Cureas, L. (habitat, tropical America and Cape Verde Islands), in which it is present to the extent of 34 per cent. Its unpleasant odour serves to dis-tinguish it from all other oils. It is further characterised by strong purgative properties, which are much more pro-nounced than those of eastor oil: ten drops of cureas oil is said to be equal to ½ oz, of castor oil.
- W. R. D. (204/56).—Insurance Dispensers.—The National Insurance Act creates no special examination for dispensers of panel doctors' prescriptions. The dispensers need to be qualified as ehemists and druggists, or to work under the direct supervision of such qualified person. Doctors' dispensers, who for three years immediately prior to De-cember 16, 1911, acted as dispensers to duly qualified medical men or in public institutions, are allowed to dispense without supervision.

Cork (213/34) informs us that the following mixture is used very successfully in treating Diabetes in Horses:

Potassii iodidi Liq. ferri perchlor. fort. ... ... 5iiss. ... 5xx. M. Aquam ad ... ... ...

An eighth part for a dose night and morning.

He wants to know what quantity of erystallised iodine will be equal to the amount of iodine liberated through interaction of potassium iodide and ferrie chloride. [The meraction of potassium iodide and ferrie chloride. [The reply is 60 grains as a maximum, but under ordinary conditions probably only about half that amount would be liberated.] "Cork" also wants to know if the addition of hydrarg. iodid. rub. gr. ij. to the mixture would be dangerous. [In our opinion it would be useless rather than dangerous.]

H. H. (210/52).—WORM-POWDERS.—We are not surprised that the worm-powders containing pulv. scammon. eo. are not universally appreciated, as that powder is very nauseous, and in certain conditions the scammony causes considerable intestinal irritation—this, in fact, being one of the reasons why it is given in worm-powders. Try a powder containing santonin and phenolphthalein \( \frac{1}{2} \) gr., sugar of milk \( 1\frac{1}{2} \) gr., and powdered liquorice-root \( \frac{1}{2} \) gr. This is sufficient for a child of three years; double quantity of calomic and phenolphthalein for children up to ten years, and so on in proportion to age or size of the child.

East Yorks (213/33).—You will find all information in regard to QUALIFICATION AS A MEDICAL PRACTITIONER in our Educational Number of August 14. A list of medical schools gives you the fees at the different schools, these varying by about 10%. A year. The difference in fees is in many eases counterbalanced by the situation of the school consulting a student to reside at his home during part. enabling a student to reside at his home during part or the whole of the curriculum. Keep in mind that the cheapest of anything, especially cheaten, is rarely the best. You can get information about scholarships from the schools that you contemplate studying in. The College of Preceptors' examinations accepted are the Senior certificate and the certificate of the Preliminary examination for medical students. The second-class certificate is not accepted by the General Medical Council.

# Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 15, 1865.

Patent-medicine Licence.

To the Editor of The Chemist and Druggist.

SIR.—The anniversary of this unequally adjusted lieenee Sir,—The anniversary of this unequally adjusted licence having arrived, I trust you will allow me space in your journal for the following brief remarks. I am said to be within the limits of the "twopenny post," and consequently have to pay 40s, per annum. A short time since I was living at exactly the same distance from London Bridge and only paid 5s.! Now if every vendor of patent medicines within the limits of the "penny post" were charged 10s. per annum, it would bring in a much larger sum to the revenue. As the collecting is now properly in the hands of the Excise, few vendors would escape.

I am, Sir, yours truly, Enfield, September 1 2265.

ROBERT F. MARTIN.

# SATURDAY, SEPTEMBER 4, 1915 OFFICE: 42 CANNON STREET, E.C.

#### TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers), and to ensure prompt inscrition REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in cach week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)



That is what advertisers in The Chemist and Druggist Supplement secure.

definite returns from spasmodic and inflated circulation, but regular, steady success-the best possible in the Drug Trade.

# CHEMISTS' TRANSFERS

## CO., 56 Ludgate Hill, E.C. Messrs. ORRIDGE

#### May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—KENSINGTON (Near).—Retail and Dispensing Business, situate in busy main thoroughfare; returns exceed £2,000 per annum, with net profit of £500; lease 21 years; opening presents to materially extend the turnover under active management.

2.—LONDON, W. (Residential Locality).—Retail and Dispensing Business, good middle-class; returns £650; net profit £200; every investigation courted; price £475.

3.—LONDON, N.W.—Good-class Family, Retail, and Dispensing Business: returns last year £1,000; net profit £300; double-fronted shop, well fitted and stocked; comfortable residence; price £450.

4.—LONDON, S.W.—Old-established Business, Retail and Dispensing; held by vendor upwards of 25 years; returns £1,300; net profit £400; attractive shop, well fitted and stocked; price

5.-GOLDERS GREEN (Within Easy Distance of).-Modern Pharmacy; rapidly increasing; returns, present rate, £1,500 per annum; attractive shop and good stock; valuation and small premium only required.

6.—LONDON, N.—Ready-money Business, very old-established; returns between £900 and £1,000 per annum; gross profit 50 per cent.; no immediate opposition; price £350, or near offer.

7.—NORTH OF ENGLAND (Market Town).—Retail and Dispensing Business; returns about £800; net profit exceeds £300; small residence; rent £19 10s.; price £375, about the value of stock and fixtures.

8.—SURREY (Within Easy Distance of Town).—Good-class Retail and Dispensing Business; returns between £1.450 and £1,500; net profit £330; situate in good position and capable of increase under energetic management; price £800.

9.—LINCOLNSHIRE.—Sacrifice for immediate Sale; Mix\*d Country Retail Business; returns about £1,800; terms, goodwill £100 and valuation of stock and fixtures; part payment entertained.

enertained.

10.—FOR immediate Disposal, as a going concern, or for removal; a good connection for the sale of several Proprietarus which have been on the market for upwards of 30 years; returns about £800; net profit £150; about £300 required.

11.—GLOUCESTERSHIRE.—Mixed Business, established many years; returns between £700 and £800 per annum; estimated out profit £200; good residence, with garden attached stocked with fruit trees; rent £21 10s.; no opposition; terms, valuation of stock and fixtures; part payment.

12.—SOUTH OF SCOTLAND.—Good-class Retail and Dispensing Business, together with Photographic Sundries; returns £700. increasing; net profit 25 per cent.; scope for considerable develop-

ment; price £450.

13.—KENT.—Good-class Family trade, with General Country Retail; old-established; returns exceed £900, at fair prices; comfortable residence, private entrance; rent £40; price £500.

14.—WORCESTERSHIRE (Death Vacancy:.—For immed..te Disposal, old-established Business, Retail. Disposals, with some Photography; returns £800; scope for doing double under energetic management; well-fitted, double-fronted shop; large h use; price £600.

#### FOR STOCKTAKING. VALUATIONS

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

CORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

# BRETT &

Licensed Valuers. 73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester."

Telephone 1934.

F. J. BRETT, M.P.S.,

METES PERSONAL ATTENTION TO ALL VALUATIONS. NO CHARGE TO BUYERS.

'AGENCY.—We have always a large number of Buyers on our pools, and we can frequently find a purchaser at once. We also bave a Private Register for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

#### STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£1,400 returns.—First-class Dispensing and Retail in popular Northern Inland Resort; net profit £300; price £1,200, or £100 goodwill and valuation of stock and fixtures.

£1,000 returns, increasing.—YORKSHIRE.—Large town; middleclass Retail and N.H.I.; net profit £350; price £650.

£550 returns.—WARWICKSHIRE.—Dispensing and Light Retail; Inland Resort; good house and shop; price £200.

£1,400 returns.-MIDDLESEX.-Exceptionally profitable good Family Retail; net profit proved by books over £500; price £775.

£600 returns.—DERBY.—Working-class Retail; unlimited scope for N.H.I.; price £240, value of stock and fixtures, or nearest

£650 returns .- KENT .- Good-class Light Cash trade; fine position; good house and shop; price £250.

We have cash Buyers for businesses from £500 to £5,000.

Valuations conducted upon the shortest notice at moderate fees.

#### PARSON BAKE

1 MOUNTFIELD ROAD, CHURCH END, FINCHLEY, N. 50 years' experience in every branch of business.
commended by———BRITISH DRUG HOUSES, LTD.

Recommended by-MEGGESON & CO., LTD. BARCLAY & SON, LTD. Tel. No. Finchley 812.

All correspondence should be addressed as above. And at 174 VICTORIA ST., S.W., Ph.C. Tel. No. Victoria 22.

Has businesses of every class and size on his register, and invites purchasers to state their requirements and the amount of capital they desire to invest.

VENDORS are invited to send particulars. No charge unless sale is made on my introduction.

VALUATIONS at moderate prices, town or country. EXAMINATIONS, Estimations, and Reports &

# THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER. ESTABLISHED OVER HALF A CENTURY. Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

# BERDOE & FISH

VALUERS & TRANSFER AGENTS. \$5 Jewry Street, Fenchurch Street, City. Telephone: 1809 CENTRAL.

#### NO CHARGE TO PURCHASERS.

1.—SOUTH-EAST COAST.—Good-class Business, in excellent position; returns £1,200; low rent; fine house and shop, well fitted and stocked; price £550, or offer.

2.—WILTS.—Unopposed Light Country Retail, with Mineral Waters; returns £1,200; net profit £300 clar; large house and garden; stock worth £650; price £700.

3.—S. WALES (Seaport Town).—Good middle-class Retail; returns £1,400; net profit about £375; fine position; large house and garden; stock and fixtures worth about £800; price £850.

4.—CHESHIRE (Border of).—Light Retail, Dispensing, and Agricultural Business in small town; returns about £1,200; net profit £300; double-fronted shop, fully stocked; price £650.

5.—HOME COUNTY.—High-class Dispensing and Light Family Retail; no opposition; returns about £1,450; net profit £360; good house and garden; modern fitted Pharmacy; good stock; price £800.

6.-MIDDLESEX (Rising Locality).-Good-class Retail and Dis

6.—MIDDLESEX (Rising Locality).—Good-class Retail and Dispensing business, in best position; returns over £1,500; net profit £400; modern premises, fitted in best style; price about £950. 7.—KENT (Delightful Locality).—Good-class Country Retail, unopposed; returns £950; no Optics or Photo; large shop; excellent stock; good house; low rent; price £500; good introduction. 8.—GLOUCESTERSHIRE.—Light Family Retail, no Panel or Side-lines; returns £600; good profits; plenty of scope; low rent; nice house and garden; good main road position; price £250.

£250.
9.—LONDON, W.—Cash Retail; returns over £1,250; net profit £350; Assistant kept; price £550, or valuation.
10.—LONDON, S.E.—Light Suburban Retail; returns £950, increasing; no Panel; net profit £300; good house and Pharmacy;

#### STOCKTAKINGS.

We undertake stocktakings on a very low scale of commis cion or an agreed fixed fee, and also price out Chemists' own stocktakings. Please apply for our terms. Businesses Wanted. Buyers Waiting.

# BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

BIRMINGHAM.—Business for Sale in main thoroughfare and thickly populated neighbourhood; now carried on as a Branch; splendid opening for Dentistry; well fitted and stocked; returns about £400 per annum exclusive of N.H.I. Dispensing; price £150, or offer; genuine reasons for disposal. Apply, 219/16, Office of this Paper.

BLACKPOOL.—Sound Business, occupying commanding position; haudsomely fitted, well stocked; turnover £680; valuation £400; no reasonable offer refused. Apply, 220/17, Office of

HAMPSHIRE.—An old-established Business (stock valued at £500); been in present proprietor's hands for past 27 years; lease will be granted for 7, 14, or 21 years to satisfactory purchaser; rent £46; price, with fixtures, £650. Apply for full particulars to view, etc., to "R. W.." 157 Queen Victoria Street, E.C.

HELSBY, CHESHIRE.—Chemist's Business for Sale; established 17 years; extremely low rental; beautiful district; a splendid chance to secure a good business. For full particulars apply to Parkin S. Booth, Accountant and Auditor, Association of Manufacturing Chemists, Ltd., 35 and 37 Exchange Chambers, 2 Bixtesh Street Liverpool teth Street, Liverpool.

RELAND.—For Sale, Medical Hall; good provincial town, South; terms, value stock and fixtures, small fine. For particulars apply Messrs. Colfer & Son, Solicitors, New Ross.

ANDORE, SWANSEA.—Due to owner having decided to retire from Retail trade end of September, and having a small genuine Business to offer upon advantageous terms, wishes to meet a suitable successor; good house; rent low; N.H. Dispensing; old established. Particulars from Dryden, Cloverley, Eversley Road Sketty, Swangeo Road, Sketty, Swansea.

DONDON, E.—Old-established profitable Cash Retail; same hands many years; with N.I.D.; in a busy market place with plenty of soope for increase; much neglected; good reason for disposal; house 5 rooms and garden; price to immediate purchaser £100, or nearest. 217/38, Office of this Paper.

LONDON, N.W.—For immediate Disposal, through not being able to obtain suitable Manager, a newly established Business (lock-up shop), with good prospects; rent inclusive 168.; £100 gets it; suit qualified or otherwise. Apply, "N. D." (222/29), Office of this Paper.

LONDON, N.W.—A well-stocked Herbal Drug Stores for Disapsal; established 10 years; no near opposition; situated iu main road; returns £7 weekly at good profits; no Patents; under a qualified man takings could be trebled; rent £45; good living accommodation; £150 or near offer. "B. F." (222/25), Office of this Paper.

MIDDLESEX.—Good-class Retail and Dispensing; pleasaut resi-unchanged; returns last three years £800, £913, £864; excellent house; rental £60; price £550 cash. 219/18, Office of this Paper.

SOUTH LINCOLNSHIRE.—For immediate Disposal (through enlisting), well-established Family, Retail, and Dispensing Business, with several good Proprietaries; very little heavy trade; plenty of scope to work up Agricultural business if desired; price £900; part purchase money could remain on approved security. Full particulars from 221/36, Office of this Paper.

OUTH WALES (Mining district).—For immediate Disposal owing to the death of the proprietor, up-to-date Retail, Dispensing, and Prescribing Cash Business, with Optical connection, N.H.I.; low rent; good prospects; rising district; no opposition within a radius of two miles. 220/37, Office of this Paper.

WEST MIDDLESEX.—Good-class Retail and Dispensing Business; well-established, and present owner retiring; returns about £1,150, and producing a net income of £400; moderate rental; good house; in first-rate order; attractive shop; fine position, and good stock; price £800; will bear fullest investigation. 224/7, Office of this Paper.

A LFRED SHAW, sub-Postmaster of Riddings, near Alfreton, Derhyshire (50 years), is desirous of disposing of his Chemist's Business; also premises, including stock and fixtures, at valuation or lump sum. For fuller particulars apply as above.

BUSINESS (small), lock-up; low rental, no rates; good profits; pleasantly situated in working-class neighbourhood; opening for N.I.; no one on Panel within a radius of half a mile; established 55 years; 42 years in advertiser's family. 213/32, Office of this Paper.

CHANCE of a Lifetime.—Druggist's Business; W.C.; established over 10 years; trade £45 per month, without Prescriptions; rent £85, let off 28s.; books kept; £200 all at; must sell; fortune to qualified man; stock alone worth more. Herbert, 12 Baker

COMPACT Drug Stores, well stocked, for Disposal; under lady management; rent £40 and rates; 5 rooms, store room, scullery, good garden; stables let off; price £165 all at. Digman, 153 Eardley Road, Streatham.

DRUG Stores. Genuine Business in busy London market, working class; taking £12 to £16; profitable trade, showing net profit over £4 weekly; scope for big improvement; good opening for Dentistry; no N.H.I. done: to sell quickly first reasonable offer accepted. 224/39, Office of this Paper.

XCEPTIONAL Opportunity.—For Salc, owing to ill-health, a high-class Dispensing and Family Business in large town in the North of England. First particulars from "K. M. D." (221/7), Office of this Paper.

FOR Immediate Disposal.—A Cash Drug Store Business, with Optical and Photographic trade, in country market town; good lending Library; splendid chance for young qualified man; large house and garden; rent £25. Full particulars to bona-fide applicants. Apply, "Glos" (215/15), Office of this Paper.

MAIL-ORDER Business (Veterinary, medicines, etc.) for Disposal, North Wales, through death of proprietor; thoroughly genuine; thousands testimonials from satisfied customers; casily worked; very profitable; every investigation allowed and references given; price \$250 or near offer. "Veterinary" (218/36), Office of this Paper.

MALL, well-established Business, West Lendon suburb; double-fronted, good windows, well fitted and stocked; Dispensing and General Retail and Photographic, Prescribing; returns £500, showing 30 per cent. net profit on the turnover. Apply, "Chambers" (222/22), Office of this Paper.

# TO LET.

SHOP (well fitted) to Let in grand suburb, adjoining two railway stations and trams; close London; recently closed owing to death; rent £36; living accommodation if necessary; good opportunity for qualified man. Wreathall, 8 Princes Street, Westminster, S.W. 'Phone, Victoria 2460.

# SALES BY AUCTION.

MARKET PLACE, SOUTHWELL, NOTTS.

(Removed to the Saracen's Head Yard for convenience of Sale.)

MESSRS. J. H. BRADWELL & SONS have received instructions from the Exors, of the late George Drury to SELL by AUCTION, on THURSDAY, September 9th, 1915, the valuable CHEMIST'S STOCK-IN-TRADE AND FIXTURES, including valuable MAHOGANY SHOWCASES, 3 SHOP COUNTERS fitted with drawers, the whole of the well-made SHELV-ING and NESTS OF DRUG DRAWERS, a quantity of lettered SHOP ROUNDS and JARS, Patent Medicines, Marble and other Pestles and Mortars, Stock of Drugs, Fancy Smelling-botties, and a variety of Chemists' Stock.

Sale to commence at 11 o'clock.

| Catalogues may be obtained at the Auctioneer's Offices, Thurland Street, Nottingham.

# TENDERS.

KENSINGTON BOARD OF GUARDIANS.

CONTRACTS FOR DRUGS AND DRUGGISTS' SUNDRIES.

THE Guardians of the Poor of the Parish of Kensington are prepared to receive Tenders for the supply of Drugs. Druggists' Sundries, Wool, Lint, Tow, etc., for six months from October 1st, 1915.

Forms of Tender, with all necessary information, may be obtained upon personal application, or by seuding a stamped addressed foolscap envelope to the nudersigned.

Tenders must be delivered not later than 3 p.m. on Thursday, September 23rd, 1915, for consideration at a Board Meeting to be held at that time.

held at that time.

By Order, W. R. STEPHENS, Clerk to the Guardians.

Guardians' Offices.

Marloes Road, Kensington, W.,
August 31st, 1915.

# BUSINESSES WANTED.

SMALL Drug Store (with Post Office preferred), in suburb of or near London, and in respectable neighbourhood; comfort-able house with no basement. Send full particulars, "Chemist" (219/22), Office of this Paper.

WANTED to Purchase, good-class modern Retail and Dis-pensing Business, with house attached, in London or suburbs. Full particulars and lowest cash price to "Pharmacist" (221/18), Office of this Paper.

Wanted to purchase, well-established Business in toilet specialities; mail order preferred. State how long established and price. "P.," 18 The Crescent, Chiswick, W.

# AGENCIES.

ONDON Manufacturers' Agent, with connection amongst Whole-sale Chemists, Perfumers, Confectioners, etc., open to accept few additional Agencies for good sciling lines in continuous demand. 215/13, Office of this Paper.

MONSIEUR RENAUD, pharmacien, 2 Rue Demours. Paris, having extensive business relations in scientific, medical, and commercial circles, is open to take up Agencies for the sale of first-class English Pharmaceutical Products; he could undertake the preparation and packing to avoid the heavy Customs duties on some chemicals and total prohibition on others; correspondence invited

TRAVELLERS offered excellent Side-line; Agency for Sanitary article universally wanted; expenses and commission. State towns covered, Campion. 58f Hatton Garden.

# FOR SALE.

POR Sale, small quantity of Liquid Caustic Potash, 30 per cent. hydrate, U.A. manufacture. Apply to S. Johnson, Hopeton Cottage, Claremont Road, Scaforth, Liverpool.

NATIONAL Cash Register, second-hand, for Sale; keys to £2; ticket printer and total adder; recent model. Write, "A.," 20 Cloudesley Road, Islington.

# PARTNERSHIPS.

PHARMACEUTICAL Chemist, with wide experience of the manufacture of Packed Goods, desires to make a working arrangement with Capitalist or with a firm having facilities for a large output for the home and export market; advertiser has manufactured, in large quantities. Compressed Tablets, Pills, Pactilles, Casules, Amboules, Malt Extract, M.E. Powder, Malt d Milk and other Infant Foods, Dog Foods, Cattle Medicines, Granular Effervescents, Concentrated Soups, Sheep Dips, Toilet Articles, Perfumery, Medicated and Toilet Soaps, Medicated Dressings (compressed and plain), Sanitary Towels, Photographic Goods, etc., and can immediately obtain large orders for many of these goods, 224/26, Office of this Paper.

# SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

#### RETAIL.

Writing on August 30, a Pharmacist on the South Coast (211 71) states:-

"A fortnight since I advertised for an Assistant with youit is interesting to know I had several good replies—and was able to fix up with a reliable married Chemist, who, by the way, is now well in with the work here. At times like these quick results are everything to a Chemist, and I feel grateful to your Paper for the help received."

BOURNEMOUTH.—Applications are invited for the position of Junior Dispenser; one with some knowledge of Photography preferred; outdoors. Apply, with full particulars, to A. F. Lawrence, The Square, Bournemonth.

BUXTON.—Junior or Improver wanted early in October: Dispensing and Counter experience essential: outdoors. Apply to W. T. Young & Sons, Pharmacists, 7 Spring Gardens, Buxton, Derbyshire.

BRISTOL.—Wanted, Junior (about 20) as soon as possible, for Light Retail and Dispensing. Apply, with full particulars as to age, experience, references, salary required, and enclose photo, to Dunford. 8 North Street, Bedminster, Bristol.

CAMBERLEY (Surrey).—Capable, gentlemanly Assistant (outdoors; for good-class business; comfortable berth; easy hours; no extra dury; wanted chiefly for Dispensing. State usual particulars, in first letter, as to salary, when at liberty, height, and references. H. Coates, Pharmacist, Camberley.

CHESHIRE.—Qualified Manager wanted, for good-class business in pleasant locality: Light Retail and Dispensing: married man required, to live on premises; convenient honse; must be good Salesman, with Photographic experience. State full particulars, with references, to "Radix," c/o Messrs. Ayrton & Saunders, Ltd., Liverpool.

CITY.—Immediately, a capable qualified Manager wanted, about 35: good salary and commission: ontdoors; short hours: no Sunday duty. State experience and references to 220/23, Office of this Paper.

DENBIGH.—Wanted (immediately) for a good-class country business, smart capable Junior; indoors. Apply, stating age, experience, and salary required, with photo (returnable), to Harrison Jones & Co., Chemists, Denbigh.

RITH-ON-THAMES.—Assistant, outdoors, qualified or unqualified, with knowledge of Dispensing and Photo trade; brisk modern business: reasonable hours: no Sunday or night duty; good salary offered to steady, energetic man. W. Reeson, M.P.S., 80 High Street, Erith, Kent.

LIVERPOOL.—Capable Assistant; good Dispenser and Counter hand; reasonable hours; outdoors. Kindly send all particulars respecting salary, and recent testimonials, which must bear close inspection, to V. Strawson, M.P.S., 25 Moss Street, Liverpool.

LONDON.—Lady Dispenser and Surgery Attendant wanted in non-Panel practice by Dr. Leslie Durno, 122 Stamford Hill, N.

LONDON.—Wanted, for week or ten days in September, good, steady, reliable, unqualified Loenm to Manage single-handed Drug store: no evening duty early-closing day; Sundays, evening only. Give full particulars as to age, salary required (outdoors), references, dates available, etc., to 225 5, Office of this Paper.

L ONDON, N.—Assistant (outdoor, for Dispensing and Retail business, Please state age, height, references, salary recuired, and experience, to F. J. Sandberg, 22 Regent's Parade, North Finchley, N.

Lionnon, N.—Junior, early in October; salary £2 weekly (out-idenous): one whole day off every week; must be good Connterman and Dispenser, and possess knowledge of Photography; hours to 9.30 p.u.. Saturdays 11 p.m. Photo and full particulars to Fides" (221 28), Office of this Paper.

L ONDON, N.E.—Wanted, unqualifich, strictly sober and honest and good Prescriber; would suit elderly man. State wages required and usual particulars, Grant's Drug Stores, 35 Chatsworth Road, Clapton Park, N.E.

LONDON, N.W.—Qualified Assistant wanted, married, to live on the premises: good honse (furnished): also good Juntor, F. Davidson, Ph. Chemist, 542 High Road, Brondesbury, N.W. LONDON, S.E.—Unqualified Junior for progressive busis permanent position and progressive salary. State ages when at liberty, "Junior" (221/023), Office of this Paper.

L'ONDON, S.E.-Wanted, reliable Assistant; Dispensing a Light Retail; liberal salary to suitable man. Apply, B a Jones, Beckenham, London, S.E.

L ONDON, S.E.—An elderly qualified Assistant; 10 a.m. t 1 p.m. and 6 p.m. to 10 p.m., close Thursdays at 1 p.m. sunday duty; outdoors; Dispensing optional. The Prosser Rort Co., Pharmacists, 323 Walworth Road.

LONDON, S.W.-Young qualified Assistant required earl October; Scot preferred; salary £3 weekly (outdo Please give usual particulars to 214/72, Office of this Paper.

LONDON, W.-Wanted, Junior Assistant. Apply, W. Rolls 2 Rupert Street, W.

PLYMOUTH.—Wanted, a capable unqualified Assistant to medium-class business; accustomed to Window-dressing monopensing; one desiring a permanency preferred; outdoors (test) State salary required, when at liberty, and references, with 10 (to be returned) if convenient, 219/4, Office of this Paper.

READING.—Wanted at once, young qualified Assistant, gle manly and obliging, for good-class Dispensing and lt Retail; must be well recommended. State usual particulars, a salary required, to J. C. Rowell, 3 Duke Street, Reading.

REDHILL.—Messrs. Fowler & Co., Pharmacentical Cher require a capable unqualified Assistant (gentlemanly) Dispensing business; preferably one not eligible for mil service; permanency. State all particulars, with photo (if sible), and salary required (ontdoors).

ROCHDALE.—Qualified Assistant; outdoors. Apply, sta age, salary required, and references, to Highleys, Chem. Rochdale.

SHEFFIELD.—Wanted, September 18, a qualified Assistant the Mixed Retail trade in a working-class district; one had had some experience in this class of trade preferred; permane Thursday half-holiday; no Sunday duty; outdoors; reference be sent for strict investigation. Exor. J. Watts, 596 Atter Road, Sheffield.

SOUTH-EAST District.—A trustworthy and gentlemanly Astant wanted for good-class business, about September outdoors; must be eapable to take charge, and preference stoone seeking a permanency; light duties and short he references must bear strictest investigation., 214/73, Office this Paper.

SOUTH OF ENGLAND.—Assistant required; experienced; manency, with good salary. Timothy White Co., I Chemists, Portsmonth.

OUTH WALES.—Comfortable berth as Assistant for si qualified man, age about 40-50; permanency. State whe liberty and salary required, "Bard" (221/23), Office of Paper.

TUNBRIDGE WELLS.—Locnm (outdoors) for Dispensing ness, for September 13. State usual particulars, salary quired, and references to 224/28, Office of this Paper.

YORK.—Wanted, a capable gentlemanly Assistant, unquality for good-class Family and Dispensing business; preference one not eligible for military service; outdoors; no Sanday dapply, stating age, experience, and salary required, with procedurable), to John Saville & Sons, 4 Goodramgate, York.

YORKSHIRE.—Assistant wanted, qualification preferred not essential, for a good-class Country business; may preferred, to live on the premises; good references required. Sage and salary. Apply, C. Midgley, Bedale.

A GENTLEMANLY Assistant as Branch Manager; goods Retail and Dispensing business, with Photographics, healthy seaside resort; one desiring a permanency prefet Kindly give full details of experience, age, height, salary requi and enclose photo, to "Diatom," c/o British Drug Honses, 2 30 Graham Street, City Road, N.

A GOOD Junior at once for a high-class Retail and Dispendence business; 35%, per week (outdoors). Apply, W. Parry-Jochemist, Barnet.

A SSISTANT or Junior; a good opportunity for a young Assis who is desirous of gaining experience in the higher bran of Pharmacy and Chemistry, where there is little of the a Retail and no Insurance work. Apply, G. D. Yates, Claugh Birkenhead.

A SSISTANT, unqualified, capable and active, for quick trade. Apply, giving particulars of references, experie and salary required, to J. E. Walker, Pharmacist, Church Str Preston.

A SSISTANT; three evenings weekly; Dispensing and Coun alternate Sundays. "L.," 26 Stamford Hill, N.

A SSISTANT (outdoors), for good-class business; Dispensing experience necessary. Apply, with usual particulars, to C. A. Maries, Pharmacist, Waterloo, Liverpool.

A SSISTANT wanted for Dispensing and Counter; whole day off one week, and half-day (from 1 o'clock) off the next week, alternately. Please give particulars as to age, experience, references, salary required, when disengaged, etc., in first letter, to Bishop & Vincent, 460 Holloway Road, London, N.

ASSISTANT wanted, fully experienced, for Counter and Dispensing; qualification preferred, but not essential to good nan; references must bear close investigation. Apply, if by etter send photo, to R. S. Starkie, 126 Strand, W.C.

BRADY & MARTIN, LTD., have a vacancy for a qualified Assistant for the Dispensing and Retail Counter; indoors; pplication from a lady (outdoors) would be entertained. Apply y letter, Brady & Martin, Ltd., 29 Mosley Street, Newcastle-on-vne.

DAINBRIDGE & FINLAYSON require a competent Assistant, about 40, for brisk business; good Organiser and Window-tesser; qualified or unqualified; married preferred; no Sunday ity; permanency for a good man. Apply at once, with photo, ating salary required and full particulars, 141 High Street, cockton-on-Tees.

THEMISTS.—Smart qualified men, accustomed to quick Cash

trade, required for Branches in the North of England. Please

to salary required, references, experience, and when disen-

ged, "Chemist," Taylors' Drug Co., Ltd., P.O. Box 141, Leeds.

OMPETENT unqualified Assistant wanted at once; outdoors.
Please state experience and salary required, Cherrington, wark.

OMPETENT Assistant wanted immediately in Mixed Country business; must be steady, honest, and possess a knowledge Photography; experience in country business preferred; short rs and no Sunday duty. Give full particulars, stating salary, e, to Hogg, Chemist, Ulverston.

CRTIS & Co. have a vacancy for qualified Assistant, about 24.

Apply, with full particulars, to W. G. Jameson, 48 Baker

et, Portman Square, W.

ISPENSER, qualified under the Insurance Act, wanted for Insurance department only; outdoors; male or female. ly, "Veritas" (221/5), Office of this Paper.

SPENSER for Doctor in Middlesbrough. Apply, Middleton & Co., Chemists, Middlesbrough.

PROVER or unqualified Assistant; one accustomed to N.H.I. Dispensing; hours 8.30 to 8; Glamorgan. Apply, stating experience, and salary required, 218/7, Office of this Paper.

NIOR Assistant, either qualified or unqualified, wanted. State age, height, experience, references, and salmy required, it photo (if possible), to Holman, Ham & Co., Ltd., Market 18tt, Exeter.

NIOR or Improver for Stock and Assist with Dispensing: a practical knowledge of Photography an advantage; no Sunday Apply, stating age, experience, when disengaged, and required (outdoors), to Blomfield, 192 Broadway, Bexley S.F.

HOR Assistant wanted at once for brisk Retail; smart Salesman and Window-dresser essential. State age, height, disengaged, salary required. Give full particulars experience, aces, etc., to Davies Brothers, Chemists, 10 Hannah Street,

(IOR wanted (preferably just completed apprenticeship) in good-class Light Retail and Dispensing: ontdoors; no Suuday Jilday duties. Full particulars and photo (if possible), to on & Webb, Luton, Beds.

IOR or Improver required in a Light Retail and Disensing business; indoors; comfortable berth to a suitable Apply, with full particulars as to age, experience, salary, o J. Shaw, 304 London Road, Thoruton Heath.

Y, as Assistant Dispenser, required by firm of Surgeons; exceptionally comfortable berth and opportunity of gaining ad experience. Apply, enclosing references and photo, and att; salary required, to "Secretary," c/o Wyllys, Wyllys & Ley, whos, Great Yarmouth.

required as Assistant Manager, qualified, must have reeived a thorough business training, for good-glass Retail is; suitable applicant would find position a comfortable and perment one. Apply, stating experience, salary (in- or out-doors), in afterence and photo, to Mr. F. S. Cullen, M.P.S., "Rangoon," tton, Norwich. LADY Dispenser required for a Tuberculosis Dispensary in the East End of London; preference given to one with a knowledge of Bacteriological work. Apply, by letter, stating age, qualifications, experience, and salary required, to "T. E. A.," c/O Clarke, Son & Platt, Ltd., Southampton House, High Holborn, W.C.

MANAGER, lady or gentleman, for Branch shop; easy hours; comfortable berth; outdoors; must be quick and reliable; £3 per week and commission on increase due to ability; permanent. Apply, Tibbles, 407 Staniforth Road, Sheffield.

MANAGER, capable and energetic; suitable man desiring permanency will be well treated; hours short; Assistant and Apprentice kept. Full particulars first letter, W. T. Hieks & Co., Chemists, Cardiff.

ANAGING Assistant, qualified, married, or intending same, for Light Retail and Dispeusing business; short hours; to a competent man this would prove a most desirable berth. Full particulars of experience, age, salary, enclosing photo, to "Calyx" (222/32), Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist as Mauager; easy hours; good and progressive salary, with excellent prospects.

NUTHALL & MASON, Bank Plain, Norwich, require a Junior Assistant (outdoors); hours light. State age and salary required, and send photo, references, and usual particulars.

QUALIFIED Manager for Branch: easy hours; good house attached to shop; good salary to smart man. R. Peel, Market Street, Rainhill, Laneashire.

QUALIFIED Junior Assistant required for high-class Dispensing business in Midlands. Apply, 212/70, Office of this Paper.

QUALIFIED Chemist as Manager of Drug Department; turnover #35 per week, including £3 Insurance prescriptions; Society's membership over 9,000; good opening. Apply at once, by letter, enclosing copies of two testimonials, and stating age, qualifications, and salary required, to General Manager, Co-operative Society, Ltd., Long Eaton, Derbyshire.

QUALIFIED Assistant; outdoors; would suit elderly gentleman or one in delicate health or semi-retired; very easy berth; no Sunday duty; half-day weekly; healthy district; short hours. 219/13, Office of this Paper.

QUALIFIED Branch Manager required for London at onee; good salary to up-to-date man; one requiring permanency preferred; very easy berth. Apply, by letter, Legbourne House, Squirrels Heath, Romford.

QUALIFIED Dispenser and good unqualified Assistant wanted; outdoors; up Sunday duty; good salary and permanency. Apply, Lewis & Burrows, Ltd., 146 Holborn Bars, E.C.

RELIABLE Junior Assistant, unqualified, wauted, principally to assist at (Counter; best experience essential; outdoors. State age, experience, salary required, and enclose photo to Ralph Cuthbert, Ltd., Chemists, Huddersfield.

SEVERAL smart unqualified Assistants wanted; good salary and commission; only good men required. Apply, with fullest particulars, to 219/19, Office of this Paper.

SMART Junior, also Part-time, two or three afternoons and evenings. Apply, with full particulars, "Celeritas" (224 35), Office of this Paper.

THE Insurance Committee for the County of Glamorgan require immediately a few Temporary Assistant Checkers (for three or four months) for pricing Prescriptions; salary 30s. per week. Applications, stating age, qualifications, experience, and whether holder of certificate of Apotheories' Hall, accompanied by two receut testimonials, should be received by the undersigned not later than first post on Wednesday, 8th inst. H. Eynou Lewis, Clerk to the Committee, Cardiff. September 1, 1915.

THE Proprietor of a Drug stores wishes to communicate with a young lady with Minor qualification. Address 222/35, Office of this Paper.

WANTED, a qualified Assistant; in or out-doors. Apply to Glaisyer & Kemp, Brighton.

WANTED (immediately), until end of year, competent all-round Assistant (in or out by arrangement); Dispensing, Photography, and Counter; comfortable home surroundings; within easy reach of City and West Eud; no Sunday duty; usual half-day on Wednesday from 1 o'clock, Fullest particulars to Pelham Young, Pharmaeist, Hounslow. 'Phone, 153 Hounslow.

WANTED (immediately), capable Assistant or Locum, for General, Family, and Dispensing business. Please state terms and references to Oram's Drug Co., Romsey, Hampshire.

WANTED, qualified Manager for Branch: W.C. district: age 25 to 30: abstainer preferred; for permanency. "Orthos" (217 16). Office of this Paper.

WANTED shortly, Senior Assistant, for Light Retail, Dispensing, and Photographic trade. State full particulars as to experience, etc., to Jno. H. Smith & Co., Chemists, Newark.

WANTED, Assistant, unqualified, for Light Retail business; easy hours; no Sunday or extra duty. Apply, with full particulars, to J. Sowray, Petergate, York.

Wanted, for end of September, a competent Assistant for a good-class Country business, with knowledge of Photography preferred; if married, could live on the premises. Apply, with full particulars, to V. W. Meacham, Ledhury, Hereford.

WANTED, Assistant, qualified; good salary to suitable man; outdoors. L. Cameron, Pharmaceutical Chemist, Scaford.

WANTED at once, Assistant for Retail and Dispensing business: outdoors. State full particulars and salary required, to J. Robinson, 22 Cross Clicaping, Coventry.

WANTED, capable Assistant, lady or gentleman, Light Retail and Dispensing: comfortable permanency to suitable applicant. Please state salary and usual particulars, 214 51, Office of this Paper.

WANTED immediately, smart Salesman for divided duties between West End and suburb; good Window-dresser: speaking French preferred, but not essential. Apply personally, between 10 and 1 or 4 and 8, to Swire & Co., 294 Brixton Hill, S.W.

#### WHOLESALE.

MIDLANDS.—Assistant required to control Packed Goods Department and devote portion of time to travelling. Full details of experience, age, salary required, etc., to 225,38, Office of this Paper.

A QUALIFIED Pharmacist with a good knowledge of Chemistry for a Laboratory in the North of England; previous Laboratory experience not necessary. Apply, stating age, qualifications, and salary required, to 215 10, Office of this Paper.

A NALYTICAL Lahoratory.—Capable Assistant required; accustomed to analyse B.P. Galenicals and undertake general Analytical work connected with Wholesale Drug trade. Apply, 212/71, Office of this Paper.

A RT and Medical Brush Manufacturing Co., 66 St. Mary's Road. Walthamstow. Essex. are open to appoint smart Agent for sale of all sorts of Camel-hair Brushes and Pencils to the Wholesale only: must be well introduced, and have first-class references.

CAPSULE Makers and Lozenge Cutters; permanent work for experienced hands.

J. Denoual & Co., Carlton Works, Asylum Road, S.E.

DRUG Assistant wanted for the Wholesale. State age, experience, and salary required, Ayrton, Saunders α Co., 34 Hanover Street, Liverpool.

DRUG Trade.—Experienced Wct and Dry Counter hands wanted at once; good wages. Apply, by letter, to "W. C. H." Burgoyne, Burbidges & Co., East Ham, E.

EXPERIENCED man to take charge of Laboratory; must be a competent Tablet and Capsule maker. State full particulars and salary required, F. M. Rimmington & Son, Ltd., Bridge Street, Bradford.

LEDGER Clerks (female), also Invoice Clerk (typist), wanted, Jules Denoual & Co., Carlton Works, Asylum Road, S.E.

PHARMACY Lahoratory.—Wanted, for provincial house, Assistant who has had experience in the manufacture of Galenicals etc., and to control small staff. Apply, stating salary, to 214/39, Office of this Paper.

 $R^{\rm EQUIRED}$  immediately, smart Warehouseman, with thorough knowledge of Patent Medicines and Druggists' Sundries, to act as Checker. Apply, 215/3, Office of this Paper.

STRONG lad, ahout 19, for Drug warehouse. Apply, Zimmermann, 9 and 10 St. Mary-at-Hill.

WANTED, hy a Duhlin firm, as Laboratory Assistant, a young gentleman, not under 22 years of age, possessing a sound knowledge of general Chemistry, and with some knowledge of Pharmacy. Apply, stating salary expected, age, where educated, and copies of testimonials, to 212 49, Office of this Paper.

WANTED, a smart Junior Despatch Clerk for Wholesale Druggists' warehouse. Apply, stating experience and wages required, R. Sumner & Co., Ltd., 40 Hanover Street, Liverpool.

WET Counter hand, experienced. Full particulars to 220, 21, Office of this Paper.

# SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; &d. for every 10 words or le beyond, prepaid. The Advertiser may, if preferred, have repli addressed to this Office, and forwarded on payment of an addition charge of 6d.

FOR the Far East, a thoroughly competent Assistant with Mir qualification; age not over 30; must have had good experier in first-class Retail business; good salary for the right mapassage paid out and home; four or five years' agreement. Addrew Export" (218 39), Office of this Paper.

# SITUATIONS WANTED.

is. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have repl addressed to this Office, and forwarded on payment of additional charge of **6d**.

#### [HOME.] RETAIL.

AN up-to-date Manager, desirous of change, with wide extence of modern trading, will be pleased to hear from the seeking the services of a keen Buyer, first-class Salesman, such ful Advertiser, and expert Window-dresser; well up in Optics Photography. Wholesale or Retail houses willing to buy ability please state offers to "Stamina" (212/22), Office of this Paper

AS Locum or Manager, first week October (except evening Hospital and good-class experience; smart, quick, neat; surance qualification. "Dispenser," 392 Kingsland Road.

A SSISTANT or Manager, age 48, all-round experience, requ permanent berth; disengaged; married; good Salesman Dispenser. "Qualified," 4 Winton Square, Basingstoke.

ASSISTANT; married; first-class experience; Dispensing, I scribing, Photo, Agricultural; good Salesman; highest re ences; particulars and salary; unqualified. Pearce, Oldfield, I Hill, Sutton, Surrey.

A SSISTANT (Senior); unqualified; married; high-class expense; country preferred; excellent references. 221/1, 0 of this Paper.

A SSISTANT; unqualified; age 41: country preferred; M business; all-round experience. Address, 221,40, Office this Paper.

A SSISTANT, unqualified, over military age, seeks permanel present berth over 10 years. 221 3, Office of this Pape

BRANCH Manager; thoroughly competent through 18 we experience, London and provinces, in good-class Retail Photographic; permanency desired, with reasonable hours; lands or North: first-class references; disengaged from pre Locum work September 13. "M.P.S.," 22 Sherwood St Fallowfield, Manchester.

BRANCH Manager, qualified (54), wants a week's Light Lo work end of September; Birmingham district or Hants, not essential. State salary, 222 37, Office of this Paper.

DISENGAGED 15th; Locum, permanency; moderate terms cellent references. "Chemist," 124 Stanhope Street, N.

 ${
m D^{1SPENSER}:~qualified}:~{
m experienced}:~{
m morning},~{
m evening}}$  stainer. Address, "Reading," 6 Victoria Avenue, East Hat

DISPENSING.—Lady wishes for lessons in same; near FC Gate. Please state terms to "C." (221/21), Office this Paper.

ELDERLY qualified Manager-Assistant; N.H.I.; single; manency; active; Prescriber; light duties; moderate b 221 4, Office of this Paper.

EXPERT Dispenser; capable; permanency or Locum. For 54 Romilly Road, Finsbury Park, N.

GIRL (21), used to pack Proprietary goods (Perfumes, etc.); 6 years' experience in City Pharmacy; good rences. 224 12, Office of this Paper.

LADY (22) desires engagement as Dispensing Pupil; Phar or Institution; state offers. "Cortex," 53 Crowhurst 1 Colchester, Essex.

ADY Dispenser-Bookkeeper (unqualified) desires post with Doctor in or near Cardiff; over six years last berth; live; capable, trustworthy. Write, 218-52, Office of this Paper.

ADY Dispenser, at present unqualified, but with Hospital experience, seeks engagement: age 22, 220 24, Office of paper.

ADY Dispenser, Hall qualification, desires post, either with Doctor or Chemist; Loudon preferred. B. Lewis, 38 Orlando ad, Clapham, S.W.

ADY, Minor qualification, desires good position as Dispenser in a Retail establishment, London; can assist at Counter; d Dispensing experience; outdoors; can commence shortly, ply, 224/11, Office of this Paper.

ADY Dispenser (Clergyman's widow), Hall qualification, desires post, Hospital or with Doctor; in or near London preferred; um or permanency. Mrs. Calvert, 10 Terrace Road, Buxton.

OCUM; qualified; disengaged; experienced; age 36.
Office of this Paper.

OCUM, permanency; disengaged September 14 or 21.
"Aspirin," New Forest Pharmacy, Lyndhyrst, Hampshire.

OCUM, qualified, near Manchester, has week commencing Sentember 12 disengaged; moderate terms. 222/36, Office of Paper.

OCUM, Manager or Assistant; married; 48; disengaged. "Qualified," 4 Winton Square, Basingstoke.

OCUM or permanency; disengaged; qualified; 58; Dispensing experience. "Chemist." 54 Bell Street, N.W.

[ANAGER; qualified: 36; capable; experienced; references; disengaged. Davies. 36 High Street, Llandovery.

ANAGER; qualified; experienced; married; permanency; disengaged. Please give particulars, first letter, "Pharmacist," engaged. Please give ve House, Birchington.

ANAGER or Senior; qualified; tall; good references; disengaged. 218/27, Office of this Paper.

ANAGER (46), married, disengaged, qualified, seeks per-manency; experienced; Extractor and adapter; well recom-ided. Apply, "Chemist," 5 Kilburn Priory, Maida Vale, N.W.

ANAGER or Assistant; married; 48; good Dispenser; 10 years in present situation; excellent references. 222/26, Office of

ANAGER, Seuior; 29: 5 ft. 10 in.: 13 years' good experi-l ence; competent and reliable; married; abstainer; disen-red shortly. "M.P.S." 6 Meridian Terrace, Gloucester Road, stol.

ANAGER, unqualified, married, 34, tall, 18 years' experience, seeks permanency: highest references. Address to orward" (224/32), Office of this Paper.

ANAGERSHIP; qualified; first-class experience; highest references. "Vera" (221-35), Office of this Paper.

ART-TIME; qualified; experienced: disengaged two or three evenings weekly; South-East London. 219 21, Office of this

ART-TIME.—Qualified Chemist (27) desires post, mornings, afternoons, or both. 224 8. Office of this Paper.

HARMACIST (27), at present engaged, requires change; Midlands preferred; good references; conscientious worker and able; Hospital, Pharmacy, and N.H.I. experience. Apply, /6, Office of this Paper

UALIFIED; Dispenser, Counter work; abstainer. "Statim," 219/11, Office of this Paper.

UALIFIED (24) seeks London permanency, or long Locum Wales considered; free September 18. Evans, Broadway macy, Cardiff.

JALIFIED Manager desires change for betterment; in present position as above over 4 years; best-class Dispensing experi; just past military age; married. Apply, "Rhei" (222/6), e of this Paper.

JALIFIED, 29, married, as Manager or Seuior; good experience. 221/38, Office of this Paper.

ALIFIED (33) seeks light berth; best West-End experience; undeniable references. 223/7, Office of this Paper.

JALIFIED Chemist, young, seeks Branch Managership: cx-cellent Salesman, Prescriber, and Window-dresser; reliable phaser; abstainer. Apply "Welshman" (222/13), Office of Paper.

ALIFIED desires change: Senior or Manager: 27: tall: West-End experience; good class only; London; ineligible. piro" (224/5), Office of this Paper.

LIEF; Saturdays from 2; qualified; capable. 218/35, Office of this Paper.

TEMPORARY, permanency; Manager's experience, London, Man-chester, etc.; credentials good. "Chemicus," 5 George L chester, et Street, Pontypool.

UNQUALIFIED; good Counter experience and Window-dresser; disengaged, Darville, 12 Ferndale Road, Stamford Hill, N.
UNQUALIFIED; 44; experienced Dispenser and Counterman; disengaged October 1; outdoors; permanency; married. 218.1, Office of this Paper.

UNQUALIFIED; permaneucy desired; market town preferred; married, no family; disengaged month hence. 222/40, Office of this Paper.

UNQUALIFIED Assistant desires change; 25; 5 ft. 9 in.; over 10 years' experience Counter, etc.; outdoors; references if required. Burley, 27 Doveley's Road, Pendleton, Manchester.

UNQUALIFIED; capable of managing best Pharmacy in England; 22 years' experience all branches. Please state terms, Taylor, 116 Shepherd's Bush Road, Hammersmith, W.

UNQUALIFIED Assistant, 4 years' Light Retail and Dispensing experience, desires change; Liverpool district preferred. experience, desires eh 221 10, Office of this Paper.

UNREGISTERED, age 50, married, no family, abstainer, good all-round experience, seeks Managership, to live on premises; prospect purchasing after twelve months if for disposal; Liverpool, Blackpool, or Southport preferred. "Riga" (221/24), Office of this Paper.

YOUNG lady (20) requires post as Dispenser in Londou; just qualified in Practical Pharmacy and Materia Medica; speaks French, acquired abroad. Miss Dawson, "St. Patrick's," Grand Drive, Raynes Park.

YOUNG lady, with some knowledge of Pharmacy and Dispensing, desires post; Liverpool district preferred. Pratt, 1 Bristol Road, Wavertree.

YOUNG lady (21), experienced in putting up stock; some know-ledge of Counter; outdoors: W., N.W., or Central districts. Smith, 54 Thilravock Street, Queen's Park, W.

### WHOLESALE.

A VALUABLE connection amongst the Chemists and Stores throughout Great Britain, together with the services of an experienced Salesman, with excellent sales record and highest eredentials, are offered to a progressive firm in the Drug or allied trades; interview at two days' notice. 224/33, Office of this Paper.

A DVERTISER, thoroughly experienced in Manufacture of Galcuicals, Emulsions, Specialities, good knowledge of Drugs, desires responsible permauent position; North or North Midlands preferred. 223/9, Office of this Paper.

A DVERTISER, young, married, 13 years' Retail worker, seeks change; wishes to Represent good house on salary, commission, and expenses basis; first-class references. 221/9, Office of this Paper.

PHARMACEUTICAL Chemist, who is about to open offices of his own, is anxious to represent a really good firm for Lancashire, Yorkshire, Cheshire, and Warwickshire, on commission basis only; advertiser, who is, in a good position, and well-known to trade, can open up good business; districts will be thoroughly worked. Apply, 220,30, Office of this Paper.

PHARMACIST (29), married, 15 years Retail experience, desires situation as Representative or Manager; at present in business on his own account. 221/17, Office of this Paper.

QUALIFIED Chemist (27), Medallist Chemistry, desires post; Analytical and Manufacturing experience. 224 08, Office of this Paper.

REPRESENTATIVE, young, married, having an excellent connection amongst high-grade Chemists and Stores in the North, Wales, and Ireland, 'already representing a first-class Toilet house, is open to a change: 7 years' experience, mostly Speciality selling and pioneering new lines; the remuneration can be based on results, or alternatively, month's trial arranged; full particulars at interview any Saturday morning. Replies to "High Grade" (223/2), Office of this Paper.

URGICAL Appliance and Chemist's Sundries.—Working Fore-woman or First hand seeks situation; 20 years' experience. "Competent," 47 Ingleby Road, Upper Holloway.

To Manufacturing Chemists.—Buyer desires situation; last 8 years with prominent house of Manufacturing Chemists, purchasing Drugs, Chemicals, Glassware, packing Materials, Printing, Boxes, Cartons, etc., etc.; expert at card index aud looseleaf record systems; salary required £250 per annum: must have complete control. Apply, 220/11, Office of this Paper.

TRAVELLER; ground previously South Coast and London, recently Retail. "Chemicus," 5 George Street, Pontypool.

USEFUL man; 20 years' experience, all branches; as Stock-keeper or any position of trust; well up in office routine, costs. 224'3. Office of this Paper.

WEST OF ENGLAND.—Gentleman covering this ground desires additional Agency for well-known house; part expenses and commission; references; guarantee. Address, "Bristolian" (221/31), Office of this Paper.

# MISCELLANEOUS.

'M CADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackhath, S.E. Established 1898. Telephone, 81 Lee Green. Shares for Salc (free of commission, subject).—160 Claudius Ash Ordinary, 21s. 5d.; 300 5½ per cent. Preference, 20s. 10½d.; 100 Castner Kellner, 61s.; 50 International Sponge Preference, 12s. 6d.; 200 Schweppes' Ordinary, 18s. 7½d.; 130 A. J. White, 5s. 7½d.

58. 71d. Shares 58. 7½d.
Shares Wanted (subject).—100 Lever "C" Preference,
208. 3d.: 150 Vi-Cocoa Preference, 68. 3d. x.d.; 200 Lewis &
Burrows Preference, 9s. 10½d.; 1,000 Idris Debentures, 60½.
Every effort made to effect business for Buyers and Sellers in
all Stocks and Shares. Bankers, London County and Westminster.

ALL statements and claims owing by the late Henry Walker, 123 Judd Street, W.C., up to and including August 31 to be lodged with the Executor at above address by September 15 inst., after which date no claims can be admitted. The business is being taken over as from September 1 by John Walker, brother of deceased, who will be responsible for all debts incurred from that date. W. Walker, Sole Executor.

SECOND-HAND SHOW-CASES AND SHOP-FITTINGS.—5-ft.
Piano Wall-case, £10 10s.; Perfume Case and Desk, Mirror
back and Glass Shelves, 58s.; Marble-top Sponge-case, 75s.; 4-ft.
Silent Salesman Case, 3 ft. high and 2 ft. wide, 2 Plate-glass
Shelves, £7 10s.; 6-ft. Dispensing Screen and Counter, Mirror
centre, £7 15s.; hundreds of other bargains. PHILIP JOSEPHS
& SONS, LTD., 93 Old Street, London, E.C.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 particulars and prices. Old Street, London, E.C.

CHEMIST'S BARGAIN, Second-hand.—14-ft. Drugfitting, complete; 2 Wall-cases, Mahogany; Plate-glass Counter; Dispensing-screen and Counter, Counter Drawers divided for labels: 5-ft. Mahogany Bent Plate-glass Counter-case, Perfumery Case and Desk, Window Enclosure, the lot £59 10s.; cheapest house for Window Enclosures, Glass Shelves, modern Shop Fronts, Improvements, etc.; designs, estimates free. Mills, Shop Front, Shopfitting Glass Facia Works, 165-5 Old Street. London, E.C. 'Phone, 550 London Wall.

BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind yon may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 25 July Road, Liverpool, E.

# WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business chaunels.

### TERMS

Minimum charge (including registration fee) of 1/for six words or less; 2d, per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND

# WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

# THE WAR WANTS EXCHANGE,

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

tablets (212/53)Antipyrin (222/14) Beta-eucaine hydrochlor, or lactate (219/12)
Bromural in powder or tablets (222/9) Carlsbad salts (222, 14) Ceridin pills (222/14) Chinosol (220/38) Chloralamid (220/38) Chloral formamide (220/38) Dimethylglyoxine, ½ lb. Duotal (222/14) Euresol pro capillis (222/14)

Hydroquinone, metol, pyro., 2 lb. (212/53)

(222/14), Marienbad tablets (original)

(222/14)
Mesotan (220/38)
Mitcham lavender oil (222/14)
Orthoform (222/14)
Drawide 7 lb.

Potass, bromide, (212/53) (212/53) Schleicher & Schüll's black band filter-paner, 11, 12½, and 13 cm. (220/31)
Sodii salicyl., 4 lb. (212/53)
Stohr's Kissingen salts

# FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to com municate their exact requirements promptly to us, and we shall place them in touch with sellers :-

Acetyl-salicylic acid, 11/4 lb. Orthoform. (218/2)

Anæsthesine, original, 6×1 ·oz. (212/53) Atropin, sulph., 1 oz. (217/39) Iodum resublim., 7 lb. lb. (217/39)

Orthoform, original, 12× oz. (212/53)
Phenacetin, 1½ lb. (214/18)
Phenazone, 4 oz. (214/18)
Potass, iodid., 7 lb. (217/39)
Sulphonal (Bayer) (217/39)
Sulphonal, 1 oz. (218/2) original, 12×1

# EXCHANGE COLUMN

One halfpenny per word with name and address. One penny peword if we register the address and attach a number. No advertisement inserted for less than 6d.

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### PROPRIETARY ARTICLES.

Tamar Iudien, 1 u.s. 48. 6d. Ingluvin. Medical Hall, Tar bert, Argyllshire. 18. Irex tooth-powder; good condition; 6d. each. Feltwell 91 Hammersmith Road, W. Watt and See" liver pills; offers or exchange? 55 South Portland Street, Glasgow.

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SHOP-ROUNDS, 25, assorted sizes; good condition. Sowerby, 4 Queen Street, Redcar.

PILL machine; 24 5-grain; marble slab; 20s. Willmott, Chemist, Old London Road, Hastings.

PEAR-SHAPE carboys: 1 about 6½ galls., plain stopper; 1 2½ galls., cut stopper; 1 2 gall., cut stopper; what offers? Prichard, Pharmacist, Llangefni.

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FOR sale, 1 doz. anti-gas respirators, 6s. "Chemist," South Hill, Manningtree.

1 cwt. sugar-candy; what offers, carriage forward? Jones, Chemist, Park Road, Liverpool.

THREE water-pillows, 18 by 24 in., as new, 12s. 6d. each or 3 for 36s. Owen, 260 Upper Tooting Road, S.W.

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ENTERPRISE tineture press; pill machines; chinosol wool and lint; salicylic wool; Hartmann's vaccination pads; zinci oxid. commercial; isinglass—tongue, sheet, and scrap. Shepperd.

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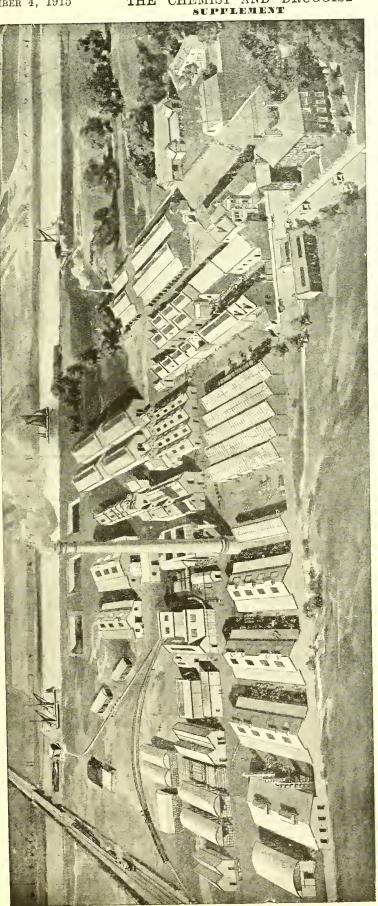
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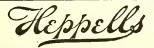
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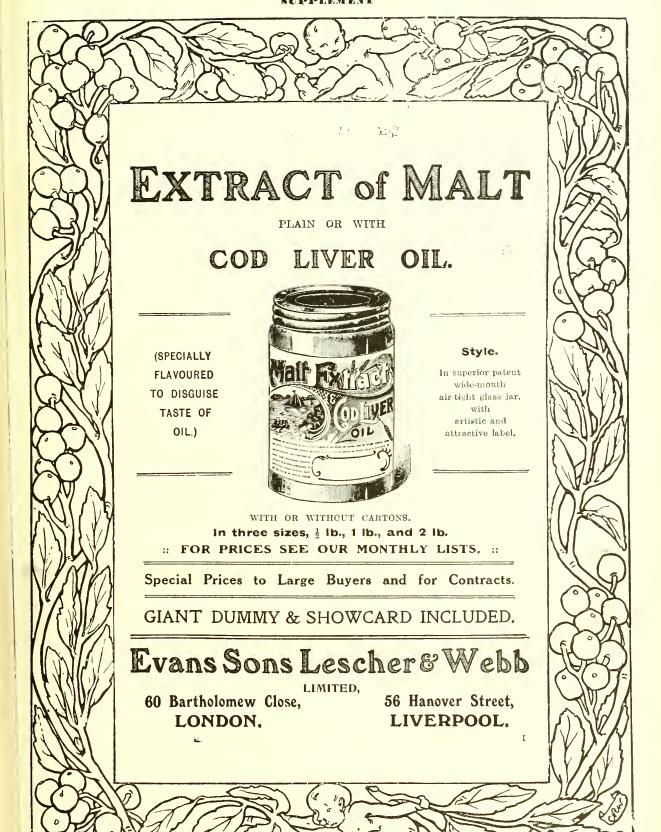
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, Belladon. B.P.C., 6 lbs. @ 3/6 lb.;
1 lb. @ 4/- lb.

Belladon. B.F.c., 9 too. 6 J/8 lb. 9 lb. 6 dycerin. Boracis, P.B., 6 lbs. @ 1/4 lb. Pepsin. Acid, P.B., 1 lb. @ 3/8 lb. Plumbi Subacet. P.B., 6 lbs. @ 1/8 lb.

1/8 lb.
Guaiacol Carb., 1 lb. @ 32/6 lb.
Guaiacol, pure, 1 lb. @ 27/- lb.
Gum Acaciæ sorts, 3 cwt. @ 55/6 cwt.; 1 cwt. @
59/6 cwt.; 7 lbs. @ 2d. lb.; English
Ground Powder, No. 1, 1 cwt. @ 115/- cwt.;
7 lbs. @ 1/2 lb.; No. 2, 1 cwt. @ 50/- cwt.;
7 lbs. @ 11d. lb.

Gum Benzoin, Sumatra, 84 lbs.@ 1/10 lb.; 7 lbs.

@ 2/- lb.

Gum Catechu Nig., English Ground, 1 cwt. @ 75/- cwt.; 14 lbs. @ 8½d. lb.

Gum Guaiaci, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5

lb.
Gum Juniper, 14 lbs. @ 1/- lb.
Gum Thus Elect., 2½ cwt. @ 34/- cwt.; 28 lbs.

@ 42/3 cwt. n Tragac. Elect., English Ground, 7 lbs. @ 7/10 lb.; 1 lb. @ 8/3 ib.

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Hexamethylenetetramine, 7 lbs. @ 6/6 lb.; 1 lb. @ 6/10 lb.
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Creta, 28 lbs. @ 1/9 lb.; Todid. Rub. 28 lbs. @ 15/9 lb.; Oxid. Rub., 28 lbs. @ 6/11 lb.; Perchlor., Lump, 28 lbs. @ 6/2 lb.; Subcblor., 28 lbs. @ 6/8 lb.; Sulph. c.
Sulph., 28 lbs. @ 6/8 lb.; Sulph. c.
Sulph., 28 lbs. @ 6/8 lb.; Sulph. c.
Sulph., 28 lbs. @ 6/8 lb.; Sulph. c.
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Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/7 lb.

Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/8 lb.

Buchu Conc., 1 to 7, 6 lbs. @ 2/5 lb.

Caryoph. Conc., 1 to 7, 6 lbs. @ 1/1 lb.

Caryoph. Conc., 1 to 7, 6 lbs. @ 1/2 lb.

Cincbonæ Acid, 1 to 7, 6 lbs. @ 1/9 lb.

Cincbonæ Acid, 1 to 7, 6 lbs. @ 1/9 lb.

Quassiæ Conc., 1 to 7, 6 lbs. @ 1/8 lb.

Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.

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Valerian Conc., 1 to 7, 6 lbs. @ 2/5 lb.

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Insect Powder, Opt., Englisb Grd., closed flowers; 7 lbs. @ 3/- lb.; English Ground, ½ closed flowers, 4d. lb. less; Foreign Ground, 28 lbs. @ 1/6 lb.
Iodoform Pulv. B.P., 7, lbs. @ 20/6 lb.; 1 lb. @ 21/- Iodum resub, B.P., 7 lbs. @ 18/9 lb.; 1 lb. @ 19/3 lb.

19/3 lb.

Isinglass, Brazil, fine cut, 7 lbs, @ 3/9 lb.; 1 lb. @ 4/-lb.; Russian finest, 7 lbs, @ 10/6 lb.; 1 lb. @ 11/-lb.; Ribbon or Sbeet, 7 lbs. @ 2/9 lb.; 1 lb. @ 3/-lb.

amala, 7 lbs. @ 1/11 lb.; sifted, 3d. per lb.

apis Pumicis, fine powder, 2 cwt. @11/- cwt.; 7 lbs. @ 2d. lb.; lump, 2 cwt. @ 16/- cwt.; 7 lbs. @ 3d. lb.

Licorice Juice, 4 & 2-oz. Sticks, 1 cwt. @ 120/-cwt.; 28 lbs. @ 1/1½ lb.; 7 lbs. @ 1/2 lb.

\*Lin. Aconiti Meth., 5 lbs. @ 1/5 lb.; 1 lb. @ 1/8 lb.

"7d. lb. Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.;

" Arsenii Hydroenec., 1 lb. @ 7d. lb. " Bismuth, P.B., 6 lbs. @ 1/6 lb. " Copalba Buchu et Cubeb, 5 fbs. @ 2/11 lb.; " 3/2 lb.

, Copatba Buchu et Cubeb, 5 105. @ 2/11 10.;
1 lb. @ 3/2 lb
, Easton., p.s. 1-3, B.P., 1 lb. @ 3/2 lb,
, Ferri Didysatus, 6 lbs. @ 7d. lb.
, Ferri Iod. p.s., 1-7, 1 lb. @ 8/- lb.
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, Hamamelidis, B.P., 6 lbs. @ 1/2 lb.
, Hypophospb Co., p.s., B.P.C., 1 lb.@ 3/10 lb.

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10, 10di Fort, B.P., 5 lbs. @ 6/7 lb. , Morphina Acet, or Hydrochlor., P.B., 6 lbs. @ 3/6 lb. , Opii Sed., 5 lbs. @ 4/6 lb.

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• " Sennæ Dulc, 6 lbs. @ 1/5 lb.
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• " Strycbninæ Hyd. P.B., 6 lbs. @ 1/9 lb.
• " Tolut, pro Syr. 1-7, 6 lbs. @ 1/9 lb.
• " Tointirni, B.P., 1 lb. @ 6/3 lb.
Lithia Carb. P.B., 28 lbs. @ 6/4 lb.; 7 lbs. @ 6/6 lb.; 1 lb. @ 6/9 lb.
" Citras, B.P., 28 lbs. @ 6/4 lb.; 7 lbs. @ 6/6 lb.; pulv., 3d. lb. extra.
Lycopodium, 7 lbs. @ 4/9 lb.

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@ 2/- lb.

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Morpbinæ Acet. Hydrochlor. or Sulpb., Pulv. B.P., 25 oz. @ 14/- oz.;
l 6 oz. @ 14/6 oz.;
l 6 oz. @ 15/3 oz.;
Pur. Præcip. Bimeconate or Tart, 1oz. @ 19/- oz.
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l oz. @ 24/6 oz.;
Hydrochlor., 6d. per oz. less.
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7 lbs. @ 1/4 lb.

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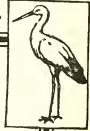
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Fig. 1194.

# BRITISH MAKE.



Fig. 1354.

Fig. 1194.—The "EMPIRE," red India-rubber Air Cushion—

Diameter 18 20 in. 10 6 Each ... 5 6 3 9 6 Fig. 1354.—Air Cushion, sateen covered, reeded Sizes  $14 \times 10$  $15 \times 12$  $18 \times 14$  in. Each 3 6 4 0 5 0 Special Line.—Khaki-covered Pillow, 17×12 in., in khaki case with clasp ...

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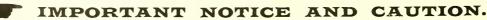
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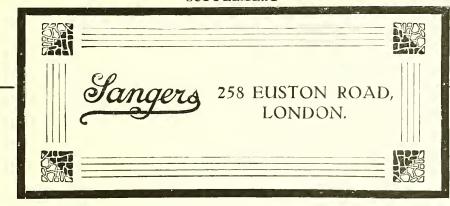


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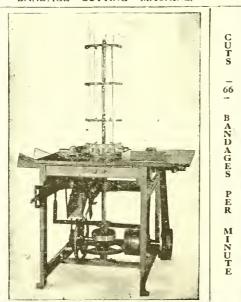
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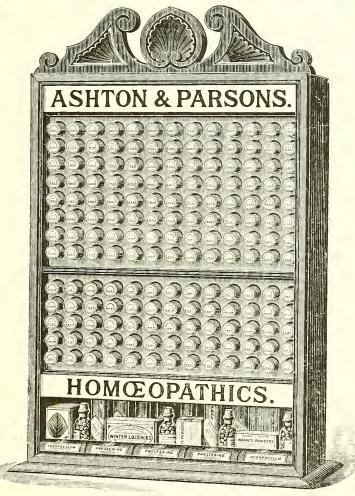
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